COMPUTE!'s

# Machine Language Games for the COMMODORE 64

Seven outstanding machine language games for the Commodore 64 and 128 (in 64 mode). Dodge missiles, slide on ice, run for president, and much more. Complete source code for all games included.

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# Machine Language Games for the COMMODORE 64

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# Chapter 1 The Games



# Fast and Furious

Gregg Keizer/Editor

BASIC is just too slow. Anyone who's programmed on the Commodore 64 knows that for arcade game speed, or for simulation sophistication (and its accompanying complexity), nothing beats machine language.

Machine language (ML) is the native "tongue" of any computer, and the 64 is no exception. The ones and zeros (ons and offs) of machine language, though, are a bit more difficult to work with than the English-style syntax of a computer language like BASIC. To write an ML game, you have to know

what you're doing.

The authors of these seven machine language games for the Commodore 64 (and 128 running in 64 mode) obviously know their stuff. The games are first and foremost fun to play. But almost as important is their length. Since they all appeared originally in COMPUTE! magazine or COMPUTE!'s Gazette, they had to be short enough to publish—not so long that people refused to type them in. The longest game, "Campaign Manager," is just over 7K long in its typed-in form. That's considerably shorter than most commercial games. Consider the length of these seven games and they're even more impressive.

Play One, Play Them All

You'll find a variety of games, both in subject matter and style of play, in COMPUTE!'s Machine Language Games for the Commodore 64. From strategy games that take careful thought to frenetic games where things blip and zip, there's something here for any gamester.

**CUT-OFF!** is a takeoff on the classic game *Blockade*. Two players hurtle their lines of light across the screen, each trying to make the other smash into a wall or previous path. Ten levels make the game enjoyable for everyone in the family.

**Nessie** is out of the ordinary, if only because it's a completely nonviolent action game. Hunt the famed Loch Ness monster, but with your instant camera. Capture Nessie on film—a clean, clear shot—and you're ahead of the game. But snap a pic of an eel or turtle, blur or crop the photo, and you end up with nothing. Fun for everybody.

Campaign Manager is a premier simulation of our country's most important process—electing a president. Two players direct the nine-week campaign of a candidate from the nomination to the final balloting. Just some of the options include pressing the flesh, television advertising, polling, fundraising, and taking stands on the issues. This may not be an election year, but the way politicians are acting, 1988 can't be far away.

Heat Seeker is a one-player game of jet plane rolls and loops. Heat-seeking missiles home in on your jet as you try to destroy their bases. Arcade-fast, with lightning-quick controls, this game almost makes you dizzy as your plane jinks out of harm's way.

Laser Beam sends your character scurrying across a chaotic field of bouncing balls. Let one touch you and you're a goner. Zap the right ball at the right time with your laser, render it harmless, then run out, grab it, and stuff it in the basket at the bottom of the screen. Dodge and twist (sounds like a dance, doesn't it?) from top to bottom. Frantic fun.

Whirlybird twirls a spread-eagled bird at the top of the screen. Use it to return the eggs that bounce back from the bricks below. Let one get by you and the trouble begins. The unusual accelerating movement of the bird makes it tougher than it sounds.

Miami Ice isn't a Canadian version of a popular TV show. Instead, it's a nightmare of slick ice, a sliding car, and guardrails that fill the windshield. Maneuver through seven different screens as you try to make it to the parking garage across town before you smash your car to smithereens. You'll get sweaty palms from this one.

**Easy Entry** 

If you had to use an assembler (see Chapter 3) to enter these games, you'd probably give up before you started. Fortunately, you can use our "MLX" machine language entry program instead. MLX is a program in its own right, one that checks your

typing and lets you know—almost immediately—that you've made a mistake. Typing in machine language programs with MLX guarantees that you'll have a working copy of the game the first time.

All seven games in COMPUTE!'s Machine Language Games for the Commodore 64 are listed in MLX format. Refer to Chapter 2 for the MLX program, its instructions, and each game's MLX listing and individual directions.

### From the Source

Source code is the original code of a program. In the case of machine language games like these seven, the source code was written with an assembler (again, see Chapter 3). If you know how to read it (even if you don't know how to write it), source code can be illuminating. It shows you exactly how the program was put together, what routines were used, and which tricky techniques were called into play.

Source code is hard to get. Most programmers guard it with their lives. That makes this book even more of a departure, because we've published the complete assembled source code for each game.

If you do dive into machine language programming, then you'll be sure to turn to Chapter 3. You'll undoubtedly find programming methods that will make your own creations run faster, look better, and play easier.

### Grab the Joystick

No matter what you use this book for—to play the games or pore over the source code—COMPUTE!'s Machine Language Games for the Commodore 64 will satisfy even the most jaded player or programmer. Get ready for some serious fun.

All the programs in this book are available in disk form. Each game's object code (what you run, and what you'd normally create by typing in the MLX listing in Chapter 2) and complete source code (in single statement line PAL format) is included on the disk. You can order this \$12.95 disk only through COMPUTE! Publications. Call toll-free 1-800-367-6767 (in NY 1-212-887-8525).

# **CUT-OFF!**

Tom R. Halfhill

"CUT-OFF!" is a fast-paced, two-player game for the Commodore 64 and Commodore 128 in 64 mode. Ten levels of difficulty—ranging in speed from moderately slow to impossibly fast—make CUT-OFF! enjoyable for everyone.

Some computer games over the years have become classics. Usually they are simple in concept, yet universal in appeal, and general enough to be translated for almost any computer. Some good examples are *Pong*, the granddaddy of all videogames, *Breakout*, *Lunar Lander*, and the venerable *Space Invaders*. For legal reasons they may be disguised by different names, but there probably isn't a home computer anywhere for which some version of these all-time favorites isn't available.

Another classic game is *Blockade*. Again, it goes by different names (sometimes *Surround*), but the basic concept remains the same: Two players square off against each other by steering a moving line around the screen, each trying to head off the other, or to force the other player to crash into a wall or into his or her own trail. This concept dates back to the early days of videogames. In fact, the very first videogame I ever played was a *Blockade*-style game. It was during the mid-1970s, and a friend and I encountered the machine in a dimly lit cafe. By today's standards the game was downright primitive. No color, crude sound effects, and slow action. Yet we had never played anything like it before. (We thought it would never catch on, because it cost 25 cents per play at a time when a quarter bought you three plays on most pinball machines.)

Years later, the basic concept of *Blockade* was revived and updated in the 1982 film *TRON*. In this Walt Disney production, humans trapped inside a bizarre computer world were forced to become gladiators on "light cycles"—space-age motorcycles which left walls in their wakes, counterparts of the lengthening trails in *Blockade*.

Anyway, that's the story behind the latest incarnation of this popular game, now dubbed "CUT-OFF!" It preserves all the traditional concepts and includes color, sound, and the broad range of speed levels possible only in a program written entirely in machine language.

### Starting the Game

Plug a joystick into each of the two joystick ports, then load CUT-OFF! by typing (make sure you've already entered **GO 64** if you're using the 128):

LOAD"filename",8,1 (for disk) LOAD"filename",1,1 (for tape)

where *filename* is the name you gave to the program when you saved it to disk or tape from "MLX."

Note: If you forget to append the ,1 to the command, the program loads into the wrong area of memory and won't work.

Assuming the program load was successful, next enter **SYS 49152** 

The game screen appears instantly. (One of the best things about machine language is that you don't have to wait around for programs to initialize.)

The opening screen allows you to select a skill level ranging from 0 (the slowest speed, suitable for youngsters) to 9 (recommended for superhumans only). The skill levels are spaced equally apart, so you might want to start at 3 or 4. The level you select remains the same for the entire game. To change levels in the middle of a game, just press the RUN/STOP—RESTORE keys and restart the program with another SYS 49152. Of course, this cancels the game in progress.

To choose a skill level, move the joystick plugged into port 1 up or down. The number on the screen changes, and even wraps around if you go below 0 or above 9. To lock in your choice and begin the game, press the fire button of this joystick.

The game starts with the players aimed at each other head-on. Don't get the joysticks mixed up between players—joystick 1 belongs to the left-hand player, while joystick 2 should be used by the right-hand player. To steer, move the joystick up, down, right, or left. You can't move diagonally.

The joystick buttons also toggle a pause feature. To freeze the action, quickly press and release the button of either joy-

### Chapter 1

stick. This leaves you free to answer the phone or take a break. To restart action, press and release either joystick button again.

### Scoring and Winning

There are four ways you can crash: hitting a wall, running into the other player's trail, crossing your own trail, or backing into yourself by trying to reverse your direction.

After a crash, the surviving player is awarded points equal to the number of segments in the crashed player's trail. This means that the longer the players last before crashing, the more points are at stake. Thus, it's possible to catch up even if you're way behind.

Each time you crash, you lose one "life." Each player starts with ten lives, and the game ends when one player runs out. After each crash, the screen updates the score and reminds you how many lives each player has left. To restart each round, press the joystick fire button.

When the game is over, you get a chance to change the skill level for the next game. Just to get a peek at how fast machine language can be, try a game at level 9. You'll be lucky if you can make one turn before crashing into a wall. Yet even this level had to be slowed down with delay loops.

### **Typing**

Refer to Chapter 2, page 51, for typing instructions for CUT-OFF! and its MLX listing.

### Source Code

The source code for CUT-OFF! is in Chapter 3, beginning on page 134.

# Nessie

Tom R. Halfhill 64 version by Charles Brannon

In "Nessie," a nonviolent action game, you're posing as a photographer trying to snap a clear photograph of the Loch Ness monster. You need a joystick to aim your camera.

For decades, fans and believers of Scotland's Loch Ness monster have affectionately referred to the mysterious creature as Nessie—hence the title of this game.

Inspired by a TV documentary on Loch Ness that recounted the hundreds of attempts to photograph the monster, this game tries to re-create the difficulties of capturing the creature on film. Whether in the game or in reality, it's not easy. Almost all of the photographic attempts have ended in failure—there exist only a few controversial photos showing parts of fins, shadowy shapes, and blurred figures. Maybe your steady hand and sharp eye will succeed where others have failed.

### **Starting Nessie**

Load Nessie by entering (only after typing **GO 64** if you're using a Commodore 128):

LOAD"filename",8,1 (for disk) LOAD"filename",1,1 (for tape)

where *filename* is the name you gave the program when you saved it to disk or tape from "MLX."

Make sure you append the ,1 to the command, or Nessie won't work.

To start Nessie, first type

### **NEW**

once Nessie has loaded. This won't erase the program, but does reset some pointers that otherwise might give you an *?OUT OF MEMORY ERROR* or cause other problems with the game. Next, enter

SYS 49152

### Chapter 1

Instantly (isn't machine language nice?), the game screen appears, with a boxed-in crosshair in the center of the screen. There are also prompts to select game options. The keys to press for each are

- f1 Telephoto
- f3 Wide Angle
- f5 Speed
- f7 Easy Game
- f8 Hard Game

There are two types of camera lenses: *Telephoto* and *Wide Angle*. By far the easiest is the wide angle, obtained by pressing the f3 key. A wide angle lens lets you cover more area from your camera position. You'll see the viewfinder expand when you press the f3 key. Since its larger size makes it easier to enclose Nessie, you may want to begin play with this.

The telephoto lens, which is the default selection (in other words, if you don't make a choice, this lens is used automatically), is about half as large, making it harder to catch Nessie within the border of the lens. In fact, the telephoto viewfinder barely frames Nessie. Press the f1 key to switch back to the telephoto lens if you previously selected the wide angle lens.

Function key f5 is used to increase or decrease the speed. The default speed is 5. Speed 1 is very slow, 9 almost too fast. Hitting the f5 key repeatedly cycles through the levels from 1 to 9.

Make sure your joystick is plugged into port 2—you're ready to begin. Press f7 for an easy (default) game or f8 for a more difficult level of play. (Pressing f7 during play restarts the game, something you might find handy.) If you choose the hard game, the playfield will be littered with black squares that interfere with your photography. It's better to begin with the easy version.

The photo session has started, and the clock is moving.

### The Big Picture

At the top left of the screen is your camera's film counter, which shows how many pictures remain on your roll of film. You start with a 20-exposure roll. Each time you snap a picture, the film counter decrements. The current game speed also displays.

Your camera viewfinder starts in the center of the screen. You can move it in any direction with the joystick. Pressing

the fire button releases the shutter. The viewfinder frame itself is blue, with a red aiming crosshair in the center. To take a properly centered photo, you must position the crosshair over Nessie. If any part of Nessie is touching the viewfinder frame when you snap the shutter, it registers as a cropped photo when the film is developed at the end of the game. A picture of a piece of Nessie is better than nothing, but it's not nearly as valuable as a photo of the whole monster. (Let's face it, wouldn't you feel better walking into the New York *Times* with an indisputable picture of Nessie instead of a doubtful snapshot of a dorsal fin?)

For the same reason, you must be careful not to include any other objects in the viewfinder while photographing Nessie. This isn't as easy as it sounds. When you start the game, you'll find that Loch Ness is alive with turtles and eels. If you photograph one of these instead, you've been "fooled"—and your photo is worth only a handful of points. (The reason you get any points at all is that you might be able to sell the photo to *Field & Stream* or an airline magazine.) The eels are particularly troublesome. They bear an uncanny resemblance to Nessie, which is why so many hopeful photographers over the years have been fooled.

Make sure your camera's viewfinder doesn't touch any text (such as the score line) or any of the black squares in the

hard game, or you'll just end up with a cropped picture.

Another hazard to beware of is jittery hands. Nessie is not an easy target—the creature swims around the loch in random directions, staying still for only a moment before slipping away. Meanwhile, you're trying to center the monster in the viewfinder. If you snap the shutter while moving the finder, the picture will be blurred. And that's worth zero points.

Pressing any key (except for the CTRL, RESTÔRE, SHIFT, and Commodore keys) freezes the screen. Hitting another key restores motion. You can do this if you want to take a short break from the game. Or if you get particularly frustrated with Nessie's darting behavior, you can use this feature to "freeze" the loch and capture her on film. It's actually cheating, but....

When you get down to your last five pictures on the roll of film, the viewfinder frame automatically turns from blue to bright yellow as a warning. This is in case you're too busy to

pay attention to the film counter.

Developing the Film

After you snap your last shot, the film instantly develops (machine language—faster than Polaroid) and is displayed. Each of the 20 finished prints shows what you photographed when you snapped the shutter. They are arranged in the order in which you shot them. (Programmers may want to note that each picture is a sprite. Using raster interrupts permits you to have up to 64 sprites simultaneously. In this program, we have 20 sprites displayed on one screen.) The frames show a whole Nessie, a cropped Nessie, a colored blur, another loch creature, or nothing, depending on your photographic skill. At the bottom of the screen is your final score, adjusted for the amount of time that elapsed.

To restart Nessie, just snap the shutter button. This returns you to the setup screen, where you can change lenses, if you wish, before playing again.

### **Pictures for Points**

Since the telephoto lens is harder to use, it scores more points. A clear, properly framed photo of Nessie taken with the wide angle lens scores 2000 points, but a whopping 20,000 points if you used the telephoto lens. If Nessie isn't completely enclosed (cropped), the photo scores only 100 points (1000 with the telephoto). Snapping a picture of a turtle or eel means you've been fooled, and you receive only 50 points, or 500 if you were using the telephoto. Moving the camera when you press the shutter button gives you a blurred picture (shown by the horizontal lines across the developed print). You get no points for this, just as you receive no reward for taking an empty picture of the loch.

Another important factor in the scoring is time. One point (or ten points with the telephoto) is subtracted from your final score for every four seconds you took to shoot all your pictures. You have to balance your pace between reckless photography and careful shooting in order to get the best pictures in the least amount of time.

Anyone Can Use a Camera

Nessie is a game that can be enjoyed by almost anyone. Children especially will delight in capturing the creature on instant film. Setting the speed level allows you to slow down or speed up the creatures' movements. Slower speeds are appropriate

for smaller children. Nessie is easy to snap, and there's none of the usual frustration with action games.

But set the speed to 8 or 9, the game selection to hard, and Nessie becomes a challenge to even the most agile photographer. You'll need a quick shutter and lots of luck to see the monster on your developed prints. In fact, it's almost as hard as getting the real Loch Ness monster on film.

**Typing** 

Look to Chapter 2, page 56, for typing instructions for Nessie and its MLX listing.

### Source Code

The source code for Nessie is in Chapter 3, starting on page 139.

# Campaign Manager

Todd Heimarck

Campaign, advertise, poll regions, take stands on issues, and more, in this two-player national-election simulation for the 64 and 128 (in 64 mode). The right strategy and a good candidate can lead you to the White House.

The Democratic delegates crowd the floor, wearing straw hats, carrying balloons and signs. The floor fights are done. The time has come to nominate.

"Maryland?"

"Mister Chairman—the great state of Maryland, the Free State, Home of the World Champion Baltimore Orioles, casts all of its votes for the senator from Arizona."

The chairman pounds his gavel. The din of cheers and jeers subsides.

### Power Broker

The convention is deadlocked. And you control a large block of uncommitted delegates. It's all up to you.

The vice president from Rhode Island has good charisma and intelligence, but you know his health is poor. The reverend from Arkansas is attractive, but a bit conservative. Although the senator from Arizona is experienced, he's not very smart. Perhaps the New Jersey doctor? No, the Ohio senator has the best combination of personality and issues, plus you'll get a home region advantage in the populous Heartland.

Now it's the Republican's turn. Of the five choices, the woman from South Carolina is the best all-around candidate. She has high charisma and fund-raising appeal, which translates well into television ads.

It's time to hit the campaign trail.

### Nine Weeks on the Trail

The Democratic senator starts with nine million dollars and 59 health points. He rests two days (to build up his health), then spends two days fund-raising. Campaign stops in Illinois and Texas sway the voters slightly to the Democratic side.

The Republican campaigns in her home state of South Carolina. She then moves on to North Carolina, Virginia, and Florida, followed by a couple of days resting.

As the campaign progresses, the Democrat concentrates on personal appearances in the industrial Northeast, plus forays into the larger states such as Texas, California, and Florida. The Republican candidate does less actual campaigning, preferring to spend more time on fund-raising to pay for her (expensive) television ads.

In the crucial eighth week, both candidates rest and fundraise in preparation for the last-minute campaigning. The Democrat does a media blitz in the Pacific, Southern, and Atlantic states. The Republican hits the Heartland, Arklatex, and the Urban Northeast.

### **Election Night**

Initial returns from New England show the Republicans sweeping the region, but the large states of New York and Pennsylvania go Democratic. The Republicans win most states from Ohio to the Great Plains, but the Democrats pick up the Southern Atlantic states (except Florida). Texas votes for the GOP, while the rest of the region slides Democratic. The Rocky Mountain states are solid Republican. The Democrats take the Pacific States.

The final results show the Republicans winning six of nine regions and capturing the presidency, with 315 electoral votes to the Democrats' 223. Three of the four biggest states voted Democratic, but Ohio and Illinois (with 47 electoral votes between them) made the difference. The TV ads in the last week moved these two key states into the Republican camp.

Managing the Campaign

"Campaign Manager" pits your candidate against your opponent's. Each of you manages a campaign, from the nomination to the actual election. Make the right decisions and your candidate finds a home in the Oval Office. Make mistakes and you'll have to wait another four years.

To get the campaign on the road, load the game by entering

LOAD "filename",8 (for disk)
LOAD "filename" (for tape)

where *filename* is the name you gave to the program when you saved it to disk or tape from "MLX" (it's assumed you've already typed **GO** 64 on the Commodore 128).

Unlike some other machine language programs on the Commodore 64 and 128, Campaign Manager doesn't require the ,1 suffix. The game's first few bytes look like a BASIC program with the command SYS 2061. Fortunately, you don't have to remember the SYS—it's built into the program.

You have nine weeks to campaign. Each week, you plan your moves and enter them via the menu on the itinerary. You have two defensive moves, resting and fund-raising, and two ways to gain votes, campaigning (personal appearances) and advertising on television.

At the beginning of each turn you see a medium-resolution map of the U.S. which indicates which way each state is leaning. The MAP option allows you to move a cursor around the country to identify which states are which. If the Republicans are ahead, the state is red. Democratic states are cyan (light blue). If you're using a black-and-white television, the Republican states are the darker ones. You may notice that states occasionally switch back and forth, even though neither candidate campaigned or advertised there. This indicates that the voters in that state are split down the middle, and because of slight errors in polling, seem to be leaning one way or the other.

Since you have only 63 days (nine weeks of 7 days), you have enough time to campaign in each state once or twice. But in terms of electoral votes, California (with 47) is far more important than some of the smaller (three-vote) states like North Dakota or Vermont. Generally, it makes more sense to campaign more heavily in the ten biggest states, sometimes called "megastates."

State	Electoral Votes	State	<b>Electoral Votes</b>
CA	47	OH	23
NY	36	FL	21
TX	29	MI	20
PA	25	NJ	16
IL	24	NC	13

Winning the election requires 270 electoral votes (of a possible 538). The ten biggest states account for 254, just 16 short of a majority.

At the beginning of the campaign, each state has a large pool of undecided voters. As the game progresses, they make up their minds and the pool diminishes. It's possible, but unlikely, for all of a state's voters to decide before the end of the campaign. You would have to go to the state at least eight times before the undecided points were used up.

Each state has a built-in bias toward one party, based on past elections for president, senator, governor, and so on. The District of Columbia, for example, is staunchly Democratic, so the Democratic candidate will automatically get seven campaign points there, compared to a Republican's two.

Since the Republicans have won three of the last four elections (including a landslide victory in 1972), you might expect them to begin the game with a huge advantage. But if you look at nonpresidential elections, you'll find that a lot of states elect Democratic governors, senators, and representatives, then vote for a Republican president. And a lot of those basically Democratic states were split by third-party campaigns (Wallace in 1968, Anderson in 1980).

To even things up and make the game more playable, the Democrats begin with an electoral vote advantage of 282 to 256, although four of the megastates (Pennsylvania, Ohio, Florida, and North Carolina) are barely leaning to the Democratic side. The Republicans have the advantage of beginning with 29 of the 51 states (since the District of Columbia has three electoral votes, it counts as a state). Most of the states west of the Mississippi are Republican, while the Democrats have most of the industrial Northeast and the South.

In addition to the natural political leanings, each state believes certain things about five general issues:

- Unemployment/inflation
- Poverty/crime
- Agriculture
- Education
- Defense

The issues are based on things like census reports and almanacs. A very urban state might be conservative on crime, but not care much about agriculture, for example. Each candi-

date has certain stands on these issues. When you campaign or advertise in a state, you can get up to three extra campaign points for each issue, *if* your stand agrees with the voters'.

Finally, the candidate you choose has a campaign effectiveness rating based on charisma and intelligence. This factor translates to votes each time you campaign.

### Choosing a Candidate

At the beginning of Campaign Manager, you choose which party will go first and decide if one candidate will be the incumbent. You might want to flip a coin, the winner choosing either a party or being the first or second player. In testing, we found that the second player has the slight advantage of making the last move. Being an incumbent gives you some extra campaigning strength and isn't recommended if you want an even game.

Note that all choices on the menu can be made with a joystick. (It's easier to play if each player has a joystick, although one can be shared. It doesn't matter which port it's plugged into.) Move the pointer with your joystick and press the fire button *twice* to make your choice. If you don't have a joystick, you can use the keyboard instead; I, J, K, and L for up, left, down, and right, respectively. Press M in place of the fire button.

Players then pick which candidate will represent their party. Five randomly chosen candidates are available. To the right of the candidate's stats is the YES/NO counter. Before making your choice, pick NO for each possibility until you have seen all five. They'll cycle around again, so you can make your choice. After selecting a candidate, enter his or her name from the keyboard.

The heart of the game is the actual campaign, but in some ways the convention is more important. Nominate a terrible candidate, and you'll spend most of your campaign trying to catch up.

### Healthy, Wealthy, and Wise

A candidate's personality greatly affects the outcome of the election. In the lower-left corner you'll see a list of five attributes, each associated with a number from one (worst) to eight (best). With a couple of exceptions, the ideal candidate is the one with straight eights.

First is charisma (CHAR), which is personal magnetism, panache, the ability to influence and excite people. This is the most important personality trait because it's part of both campaign effectiveness and advertising effectiveness.

Stamina (STAM) rates your candidate's health. A candidate with low stamina will have to rest frequently to regain

health and strength.

Intelligence (INTL) adds points to campaign effectiveness

and last-minute campaigning.

Experience (EXPR) helps you with fund-raising. If your candidate has lots of experience, he or she has more contacts and connections for raising money. Since experience comes with age, it counts against your health, although stamina counts for more health points.

Appeal (APPL) also contributes to fund-raising appeals. But if you have maximum appeal (eight), you may be tainted by your affiliations with special-interest groups, and there's a backlash when you advertise. It's best to have an appeal of six or seven.

The candidates' attributes are generated by adding three random numbers, so candidates are more likely to have a middle number (four or five) than one of the extremes.

The personality traits translate into these five campaign factors:

Campaign effectiveness (CHAR\*2 + INTL): the key factor in campaign stops.

Strength/Health (STAM\*4 + 9 - EXPR): determines the

effectiveness of a rest day.

Fund-raising appeal (EXPR\*3 + APPL): determines how much money can be raised in a day.

TV ads (APPL OR 8 + CHAR): translates into votes when advertising.

Last-minute campaigning (INTL + STAM): wins lastminute votes to your side after the ninth week.

The significance of each factor is explained below in the section called "Getting Votes."

### Here I Stand

Next to the personality factors are the candidate's stands on various issues. You see five issues, each with a sliding scale of one (at the far left, representing liberal) to six (conservative). A Republican who wants to get tough on crime, for example, will have a rank of six. A Democrat who wants to solve the unemployment problem will have a rating of one.

Candidates will range from two to five on the issues of agriculture and education. On the other three issues, the Democrats will have stands from one to four, while the Republi-

cans will go from three to six.

You'll generally get more votes with middle of the road beliefs. Look for a candidate with twos or threes if you're the Democrat. Fours and fives are best for the Republican. The exception is agriculture and education, where you do best with a three or a four.

Common sense tells you which issues are important in most states. Agriculture is a major issue in the farming states. Your stand on defense makes a difference in states with a lot of military-related industry, like Washington state, Utah, and Maine (the formula was obtained by dividing military contract spending by population, for a per capita expense).

The candidate's personality is generally more crucial than the stands on issues. If you have a lot of charisma, intelligence, and appeal, it doesn't matter if you have radical views

on one or two issues.

If you have five very bad candidates, press RUN/STOP-RESTORE and try again. It's not much fun running a doomed campaign (ask Gary Hart, campaign manager for George McGovern in 1972).

Beginning the Campaign

After the nominees have been chosen, the first week begins. You may notice that some states have changed colors. That's because each nominee gets the equivalent of campaigning once in each state. (Some voters make up their minds before the campaign even starts.) If one candidate is much more charismatic or happens to hit the right issues, a state may jump over to his or her side. In addition, each gets a home state and home region advantage.

You should develop a strategy. If your appeal and charisma are strong, you might want to concentrate on television ads. If your candidate has a strong anticrime stance, visit the more urban states. At the very least, you should plan to visit each of the megastates.

You begin in your home state; it's traditional to campaign

there once. And the first week usually means some fund-raising and resting, as purely defensive moves.

### The Doctor, Treasurer, Pollster, and Pilot

Under the week's itinerary should be two numbers. At the beginning of each week, your treasurer tells you how much money you have, up to about \$25 million. Your personal physician figures out how healthy you are. At most you'll have 255 health points.

If you fall below four million dollars at any time during the week, television advertising will be useless. If you have less than one million, you won't be able to pay the pollster (you won't even see the bar graph to the left of the map). When your bank account falls to zero, the campaign is paralyzed until you sponsor a fund-raiser. You can't even afford to pay your doctor or staff.

It takes time away from campaigning, but you have to raise money once in a while. Each fund-raising point (EXPR\*3 + APPL) is worth \$200,000.

Campaigning is exhausting, and even though it takes time, you'll occasionally have to rest. When you decide to catch some Z's, the itinerary will be filled with (you guessed it) Z's. Each day of rest adds double your strength factor, plus campaign effectiveness, plus the number of states you're winning, to the health you have. A high campaign effectiveness gives you optimism; you rest better. If you're behind, you worry and toss and turn. Resting two days in a row gets you 16 extra health points.

There are two reasons to keep your health up. First, when you campaign in a state, you get an extra campaign point for every 32 health points you possess. Second, if your health falls below 8, you look haggard and falter over the simplest speeches; campaigning does you no good.

The treasurer counts dollars, the doctor counts your health, and your pollster counts votes.

The pollster does three things. First, you get a bar chart that shows how many electoral votes would go to the Democrats and Republicans if the election were held today. You can see it to the left of the map. The gray bar marked *U* represents undecided states too close to call. Second, you have a map of the U.S. to show at a glance which way each state is leaning. Republican states are red, Democratic states blue. These first

two services are part of the pollster's contract and cost you nothing. Of course, if your money drops lower than one million dollars, you have to stop paying the pollster; all you get is

the map.

The third service is the most important—regional polls. To get a poll of all states in a region, move to POLL on the main menu and press the fire button twice. You'll see a bar chart showing which way each state in the region is leaning, from one (half a character wide) to four (two characters). The poll reflects the political situation at the beginning of the week; whatever campaigning you have planned for the week isn't included. A state with a thin bar can usually be taken with a single campaign stop.

Don't use polls in the first couple of weeks—most states start out fairly even, and you won't learn much. But polling can be a powerful tool toward the end of the game. If New York is firmly committed to you, forget about further efforts in that state. And if you find a whole region weakly supporting your opponent, you can hit them with TV ads and score a few

dozen electoral votes.

Regional polls cost \$100,000 and are not available if you begin the week with less than a million dollars.

The final character (although transparent) in your entourage is the jet pilot. Your jet can carry you on short hops within a region for almost nothing. But if you travel to a new region, you'll shell out \$100,000 for fuel and maintenance. As long as you're in a region, you might as well stay there a few days to avoid a lot of travel expenses. Again, you don't actually move to a new region until you've campaigned in one of the states. You can use the travel option to conduct regional polls; you'll pay \$100,000 for the poll and another \$100,000 if you decide to campaign in a region. Don't campaign and you won't be charged for travel.

### **Guests and Fish**

Benjamin Franklin once said that after three days, guests and fish begin to smell. The same principle applies to campaigning.

Campaign once and you gain some votes. Stay for a second day and the voters of a state are flattered; you gain a couple of bonus votes. But stick around for a third or fourth day, and you've overstayed your welcome.

### **Getting Votes**

Each state begins with 255 undecided voter points. Your main goal is to use campaigning and television advertising to sway the undecided. And you have to maintain your health and money.

The effects of a personal appearance can vary. You get up to 3 points for each issue (if the state agrees with you), 1 point for every 32 health points, and up to 24 for your campaign effectiveness (intelligence plus double charisma), plus a 2-point bonus if it's your second day in the state.

If your money is down to zero, you get no campaign points. If your health is below eight, you get a single vote.

Each campaign stop decreases your health and money. It's possible to run out in the middle of the week, making each succeeding visit ineffective until you rest or raise money. Let's say you go to Connecticut and impress 23 of the 255 undecideds. The pool of available voters is reduced by that number. Half of 23 (11 points) is charged against your health. Half again (5 points) times \$100,000 is subtracted from your money. In addition, each state has some people who don't agree with you, so a quarter of your total (5 points) goes to your opponent as a reaction against your speech. If you had previously been in a different region, travel expenses of \$100,000 are subtracted.

Television advertising is a little different. It affects every state in the region and quickly swings voters to your side. To advertise, first travel to the region and, before doing any ads, make at least one campaign stop to establish your presence. After campaigning once, you can advertise as much as you like.

Unlike resting and campaigning, the effects of advertising do not accumulate from day to day. If you advertise two days in a row, you don't get bonus points. Advertising does grow in strength from week to week, however, and will be more effective toward the end of the campaign.

If you flood the region with ads, it's possible to bring a whole section of the country to your side. But it is costly. In each state, advertising credits you with half your campaign effectiveness, half your TV ads' effectiveness rating, points for issues, plus two times the week number (in week 7, for example, you get 14 extra campaign points).

The cost is the usual one-fourth of campaign points gained, plus double the TV ads' effectiveness. The large re-

gions can cost a lot. Going on TV in the Atlantic States (all nine) or in the Rocky Mountains (eight states) can easily deplete your treasury.

On the day you plan to advertise, you must have at least four million dollars. If you don't, you waste the day and gather no new votes. So, if you begin the week with five million, and campaign in six states, it's likely you'll have less than four million by Saturday. Your ad campaign will do you no good.

There's one more item you can choose: RECONSIDER. If you make a mistake, this option wipes your itinerary clean so that you can start the week anew. Your choices are not permanent until you fill out the seventh day and press the fire button. (If you pull on the joystick instead, it's the same as reconsidering.)

Here's a summary of the commands on the main menu:

- CAMPAIGN—allows you to make a personal appearance in one of the states of the region you're visiting. Results depend on campaign effectiveness, built-in party bias of the state, health, and issues. Doesn't work if you have zero health or money, or if all undecided voters have been claimed. Gains votes, costs health and money.
- TV ADS—blankets the region with advertising. Reduces health and costs a lot of money, but can quickly deliver a big chunk of votes. Net votes based on TV advertising effectiveness, campaign effectiveness, and issues. Doesn't work if you have less than four million dollars.
- FUNDRAIS—raises money for your campaign based on fund-raising ability. Takes a day, gains no votes, costs nothing.
- REST—builds up your health points, according to strength factor. Extra points if you rest two days in a row. Gains no new votes, costs nothing.
- MAP—moves the cursor around the map, prints the state name, electoral votes, and region number. For information only, costs nothing.
- POLL—provides a bar graph showing which way the states in the region are leaning. Costs \$100,000 (immediately). Not available if money falls below one million dollars.
- RECONSIDER—erases the week's itinerary if you make a mistake.

• TRAVEL—takes you to a new region of the country. Costs \$100,000 (not charged to you until you actually campaign there).

### The Home Stretch

The ninth week is usually the most hectic. If you sponsored some fund-raisers in week 8, you'll want to spend a lot on TV advertising in the regions where you have a chance. Polls can tell you which states are most vulnerable.

After both candidates have finished their last week of campaigning, a couple of things happen. The last region to be visited by a candidate gives that candidate a few extra votes. And the last-week routine goes into action, as all the undecided voters make up their minds. Both candidates get their last-minute campaigning points (intelligence plus stamina) added to each state in the country. The undecided voters are split between the candidates and ties are resolved (based on the built-in bias to one party or the other).

The map is drawn for the final time. The final bar chart appears to the left (which should indicate at a glance which candidate won). Beginning with region 1 (New England), the electoral votes are displayed, with region totals below.

The winner is the candidate with the most electoral votes. There is a slight chance that there will be a tie, in which case you'd have to flip a coin.

### Campaign Etiquette

Here are a few traditional rules of Campaign Manager etiquette:

First, since the joystick routine reads both joysticks, try to avoid interfering with your opponent's choices. Put down your joystick when it's not your turn.

Second, when you have filled out your itinerary and the prompt PRESS FIRE BUTTON TO CONTINUE appears, don't press the fire button. Let your opponent study what moves you made. Then he or she can press the fire button.

Third, since polls cost money, they should be kept private. When the other player is taking a poll, look away from the screen.

### On to the White House

Campaign Manager is a true simulation. It accurately represents different candidate's strengths and weaknesses, campaign strategies and tactics, and allows for that bane of all politicians, a bit of luck. You'll find the game entertaining and highly educational as well. We all can't run for the presidency. But with Campaign Manager, you can at least see how you would have done, given the chance.

**Typing** 

Refer to Chapter 2, page 64, for Campaign Manager's typing instructions and MLX listing.

### **Source Code**

Campaign Manager's source code can be found in Chapter 3, beginning on page 147.

# **Heat Seeker**

Jeff Wolverton 64 version by Tim Victor

Your jet climbs upward to avoid the missile, then dives for the ground. But it's still on your tail. You can't shake a heat seeker. A fast-action game for the Commodore 64 or Commodore 128 (in 64 mode).

Joystick required.

Heat-seeking missiles are dangerous. They sense the heat from your jet engine and home in on you. They'll catch you, too—they're faster than any jet.

Your assignment—eliminate the heat-seeker base. It's easy enough to strafe the missiles on the ground, but if any are launched, you'll have to take evasive action.

### Piloting the Jet

You can load and run "Heat Seeker" as you would any BASIC program since an enabling SYS command is built in. Simply enter

LOAD "HEATSEEKER",8 (for disk)
LOAD "HEATSEEKER" (for tape)

(Use the filename you saved the program with in place of HEATSEEKER.)

Press RETURN, then type

### **RUN**

and press RETURN again.

Use the joystick to control the movement of the plane. The controls may seem a little confusing at first. You pull back to loop upward (counterclockwise) and push forward to loop down (clockwise), like in a real airplane. The jet moves at a constant velocity—you can't speed up or slow down. Press the fire button to launch a missile at the heat seekers on the ground.

If you do manage to eliminate all the heat seekers, you get to start all over again, this time with a new group of heat

seekers. You have eight jets to work with—the number remaining is displayed on the screen, next to the score. To pause the game, press the SHIFT LOCK key.

### **Fast**

The jets and missiles in Heat Seeker are sprites, making for smooth movement. Written entirely in machine language, the game is *fast*.

Though you can fire at heat seekers on the ground, it does no good to fire at a moving heat seeker. They're equipped with an improved electronic evasion (IEE) circuit which makes them impossible to hit. The only way to get rid of a seeker is to make it crash into the ground. When you're being pursued, dive for the ground and pull up at the last second. Seekers are faster, but they can't turn as quickly.

Don't worry about errant rounds you've fired—your plane can't shoot itself. If your jet is destroyed, all the heat seekers reappear.

A two-player mode is also available. It's not competitive: The players take turns flying the plane, trying for the highest possible score. The game reads both joystick ports, so if you're using two joysticks, the inactive player should put down the joystick to avoid interfering.

There are three levels of difficulty: Novice, Intermediate, and Expert. The higher levels have faster action and tighter curves. A flight-time bonus of ten points is awarded every few seconds, just for staying in the air.

**Typing** 

Chapter 2 contains the typing instructions and "MLX" listing for Heat Seeker. Refer to page 84.

### Source Code

Heat Seeker's source code begins on page 173.

## Laser Beam

Mike Greenfield 64 version by Kevin Mykytyn

This fast-paced arcade game challenges the quickest reflexes. You'll need a joystick to shoot the laser, dodge the bouncing balls, and make it back to the safe zone.

"Laser Beam" is a fast-action, arcade-style game that, like almost every good game, sounds simple in the explaining but is far from easy in its play. Render the dangerous balls harmless with your laser, snatch the now-touchable ball while avoiding all the others, deposit that ball in the basket, and (whew!) make it back to the safe zone.

### The Highlight Zone

Plug a joystick into port 2 and type

LOAD"LASER BEAM",8,1 (for disk) LOAD"LASER BEAM",1,1 (for tape)

assuming that you saved the program with the filename LA-SER BEAM, of course. Next, type

### SYS 49152

and press RETURN.

Move the joystick up or down to select the difficulty level, which ranges from 0 (slowest) to 9 (impossibly fast). The game

starts when you press the joystick's fire button.

You'll immediately see seven colored balls bouncing around the screen. At the left is a highlighted *safe zone* occupied by a small stick figure—that's you. By moving the joystick, you can maneuver your figure around the screen. But if you venture out of the safe zone and bump into a bouncing ball, you're zapped. (You get three lives per game, as indicated by the figures at the bottom of the screen.)

Your goal is to render the balls harmless, grab them one by one, and drop them into the basket in the lower-right corner. To make a ball safe to touch, you have to shoot it with the laser gun. The laser is visible along the edge of the screen. To control it, first move your figure into the uppermost corner of the safe zone. The laser gun is under your control only when your figure is at this spot. Pushing the joystick to the right moves the laser clockwise around the edge of the screen, and pushing the joystick to the left moves the laser counterclockwise. Press the fire button to activate the beam. If you push the joystick in any other direction, you'll move your figure away from the top of the safe zone, and the laser gun will no longer be under your control.

You can't shoot just *any* bouncing ball with the laser to make it safe to grab. You have to shoot the ball which matches the border color of the screen. As soon as you hit the ball, it turns white. Then you can maneuver your figure out of the safe zone, grab the white ball by touching it, carry it to the basket, and drop it in by pressing the fire button. Afterward, you must scurry back to the safe zone before a collision with

another ball.

Let's say the border color is red. First, you move your figure to the top of the safe zone to take control of the laser gun. Next, you push the joystick right or left to aim the laser at the red ball. When you have a clear shot, press the fire button to shoot the beam. If you score a hit, the red ball turns white. Then you can push the joystick in another direction to move your figure out of the safe zone. Grab the ball, stuff it into the basket by pressing the fire button, and make your escape—all while avoiding the other bouncing balls. If you succeed, the border color changes to correspond to one of the remaining balls.

You continue with the process until all the balls are safely dropped into the basket. Then another round begins.

**Bouncing Chaos** 

Sounds simple, right? Well, it's not. There are a few complications. Suppose you fire the laser and hit a bouncing ball that doesn't match the border color. It turns white, too. But it isn't safe to grab. If you touch it, you're zapped. This becomes a real problem when you accidentally shoot several of the balls and turn them white. Only one of them is safe, and you have to remember which one. It's not easy when three or more white balls are bopping all over the place.

There's an incentive for creating this chaos, however. The number of points you get for dropping a ball in the basket

doubles for each white ball on the screen. If the only white ball is the one you're grabbing, you get only 5 points. If a second ball is white, you get 10 points; if a third ball is white, you get 20 points; and so on. If all seven balls are white when you drop the first one into the basket, you score 320 points.

Another complication is that your safe zone doesn't always stay safe for very long. After you shoot the ball that matches the border color, it begins shrinking from the bottom

up. If you don't hurry out, you'll get zapped.

And there's yet another reason to move quickly: If you finish a round by dropping every ball into the basket before the horizontal bar at the bottom of the screen disappears, you get a 50-point bonus.

If all this action causes your brain to momentarily suffer a system crash, you can freeze everything by pressing and holding the SHIFT key. Press SHIFT LOCK to freeze the game for extended periods. Release SHIFT to resume play.

#### **Typing**

Refer to Chapter 2, page 95, for Laser Beam's typing instructions and "MLX" listing.

#### **Source Code**

The source code for Laser Beam can be found in Chapter 3, page 188.

### Whirlybird

Philip I. Nelson

This hyperactive bird lays some rather unusual eggs.
A quick-reflex action game for the Commodore 64
and 128 (in 64 mode). You'll need a joystick.

"Whirlybird" is a fast, updated version of the classic game *Breakout*. You control the Whirlybird, who flies back and forth at the top of the screen, spinning continuously. The goal is to clear out the layers of colored bricks at the bottom by bouncing eggs against them. When an egg moves back in your direction, move the Whirlybird into its path to bounce it back down. The game ends when you clear the field of bricks or run out of eggs.

Starting Up

Plug a joystick into port 2, then load and run Whirlybird as if it were a BASIC program. Don't try to start the program with the SYS command.

To load the game, type

LOAD "filename",8 (for disk)
LOAD "filename" (for tape)

where *filename* is the name you used when you saved the game from "MLX." Type RUN.

The playfield appears immediately, with the Whirlybird twirling across the top of the screen. On either edge is a sparkling row of sidebeams and below are multicolored rows of bricks. At the upper right is the number of eggs you'll have in this game. Though the usual number is 10, you can get a smaller or larger number (up to 255) by pushing the joystick backward or forward. (Don't select zero—you'll simply return to the startup screen.)

Now pick the skill level. Press the f1 key to play a normal game or the f3 key for an expert game. At the expert level, the Whirlybird is only half its normal size, making it harder to hit the eggs. After choosing the level, the prompts disappear and the game begins.

Lay an Egg

Press the fire button to release the first egg. You earn 1 point every time you hit a brick, and 10 points every time you bounce an egg back down with the Whirlybird. Letting the egg fly past you into space subtracts 10 points from your score (unless it's already under 10). When that happens, the sidebeams sparkle continuously until you press the fire button again to release the next egg. Play continues until you lose all your eggs or clear the field of bricks. A 50-point bonus is awarded for clearing every brick from the screen.

In addition to normal bricks, the playfield contains a few round ones. When the egg hits one of these, the Whirlybird swoops down to deposit a sidebeam somewhere above the playfield. This doesn't affect your score—you get a free egg as well (press the fire button to release it). However, the extra sidebeams add an element of uncertainty since the egg rebounds sideways from them (not up and down), and they may or may not disappear when struck.

Whirlybird displays your current score as well as the highest score attained during the current session (which may include more than one game). When a game ends, both scores are displayed until you release the first egg in the next game, after which the score is cleared to zero. Since the high score is stored within the program code, you can record it for future comparison by resaving the game after each session ends. (It's a good idea to resave it with a different filename—like BIRDHIGH—to distinguish it from the original copy, which then serves as a backup.) The next time you load and run Whirlybird, it displays the previous highest score.

The Joystick Accelerator

It may take you some time and practice to master the joystick motion in Whirlybird. Rather than zooming immediately to the spot you want, the bird moves in an elastic manner, simulating the inertia and momentum of a natural object. It takes a bit of pushing to overcome the bird's inertia and get it moving. The longer you push in one direction, the more speed and momentum you gain (up to a point). After you let up on the stick, the bird slows down and eventually stops. Hitting the sidebeam reverses your direction immediately. Reversing direction in midscreen may take a long or short time depending on your speed.

Think of the joystick as a gas pedal in a car. Keeping your foot on the accelerator makes the car move faster and faster. Let up, and the car gradually slows down. Learning to control the acceleration takes time. (You may find it more effective to move the Whirlybird with short taps on the joystick, rather than with long periods of acceleration.)

Egg Juggling

The direction in which an egg bounces when it hits the Whirlybird depends on which way you're pressing the joystick. If you're not pressing it left or right, the egg rebounds as if the bird were a solid wall. If you're pressing the stick left, the egg bounces to the left; if you're pressing right, it bounces to the right. This lets you control the direction of every bounce. But don't move the stick so much that you miss the egg completely.

The result of a bird/egg collision also depends on what part of the bird you hit. The safest strategy is to hit the egg with the bird's feet. Bouncing it off a wing is more dangerous, since the bird never stops turning. If the egg arrives when the wing is outspread, you'll usually get a normal collision. But if the Whirlybird happens to be facing sideways—making it very

slim in profile—the egg may miss completely.

Occasionally, a wing collision causes the bird to juggle the egg briefly. Juggling gives you extra points and may also change the angle of rebound slightly (a boon when you're short on eggs and need to clear the last few bricks). But it's also dangerous, since the bird may juggle the egg upward and out of play. Juggling occurs less frequently at the expert level; with smaller wings it's more difficult to get multiple collisions.

Rings and Filters

Whirlybird's unusual sound effects are created with two voices of the computer's sound chip. Voice 3 is used as a random number generator (to pick a random screen position and direction for each new egg) and doesn't produce any sound. Voice 1, set for a pulse waveform, makes a *boing* sound when an egg bounces, and voice 2 creates low, thrumming tones in the background with a ring-modulated triangle wave. The vibrato-like effect results from ring-modulated overtones that slowly pass in and out of phase with the frequencies of voices 1 and 2.

These sounds are made more interesting by passing them through a combined low-pass/band-pass filter and sweeping the filter's cutoff frequency up or down in conjunction with other game events. When you start the game or when the egg is flying freely, the cutoff frequency sweeps up and down, creating a gradual *meow-meow* effect. When the egg hits something, the cutoff frequency is set high and swept rapidly downward to accentuate the bouncing noise.

#### **Typing**

Refer to Chapter 2, page 105, for Whirlybird's typing instructions and MLX listing.

#### Source Code

Whirlybird's source code can be found in Chapter 3, starting on page 199.

### Miami Ice

Jeff Kulczycki 64 version by Kevin Mykytyn

Forget the flamingos, the sun, the powerboats, and the designer clothes. "Miami Ice" doesn't have a smuggler within miles. What it does have is ice—lots and lots of slick ice under your wheels. This action game challenges both your driving skills and powers of concentration. Joystick required.

Ah, Miami—sun city of the South. A sparkling metropolis blessed with a tropical climate, palm trees, beaches, revived art deco architecture, stylish pastels, and classy elegance. Almost paradise.

You wake up on another bright, sunny Miami morning, sip a glass of freshly squeezed orange juice, don your white linen suit and sunglasses, and stroll outside—then get the shock of your life.

What's going on here? Overnight, a freak shift in the jet stream has piped a blistering cold front down from Ohio. The weather forecaster had predicted a brief shower last evening, but that's not what happened. Instead, the Florida peninsula was blasted by the worst ice storm in 400 years. The Everglades are frozen solid. The pink flamingos are blue. And the streets of Miami are coated with a shimmering layer of slippery ice.

As you start your car—the pampered engine coughs and sputters in the bitter cold—you wonder what it's going to be like driving to work. A Miami native, you've never driven on ice before. In fact, you've never even seen this much ice since your boss's retirement party last year, when the caterers made that life-size ice sculpture of Ponce de Leon. You've heard the horror stories told by tourists about winter driving conditions up North, but never thought it could happen to you—not here, in Miami.

The minute you pull out onto the street, your worst fears come true. When you step on the gas pedal, the wheels spin and the car accelerates sluggishly. When you turn the steering wheel, the car slides all over the road. And when you step on the brakes—well, forget it.

You realize, desperately, that you've got to make it to the parking garage across town without smashing your car to smithereens. It won't be easy. But at least there's one thing in your favor—you've got the whole road to yourself. Everyone else, it seems, had the good sense to stay home.

#### **Out of Control**

Use the joystick plugged into port 1 to maneuver your car across ice-covered Miami streets and reach the safety of a garage. The joystick button is the gas pedal, and pushing the stick right or left steers the car in the corresponding direction.

Here's the twist—the car doesn't respond instantly to your commands. It tends to slide in the same direction even after you've steered it toward another direction. Then, when you try to recover, you often overcorrect and start sliding in yet another new direction. It's an inertial nightmare—much like real winter driving.

When you hit a guardrail or some other obstruction, your car cracks up. You get three cars per game. To steer your car safely into the parking garage and advance to the next screen, enter the front of the garage without bumping into the black lines which mark its three walls.

But the game's not over even if you reach the safety of the garage. Instead, you advance to another screen whose streets are even harder to navigate.

The number of points you score depends on how soon you reach the garage. As an incentive to recklessness, a timer starts counting down when you begin each new screen. If you reach the garage, you score the number of points left on the timer. If the timer runs out, you can still reach the garage, but you won't get any points. However, you will advance to the next screen. Indicators on the screen show the timer value and your current score.

#### Hands at Ten and Two

Though Miami Ice is written in machine language, you start the program as if it were written in BASIC. To get a grip on the steering wheel of your car, load the program by typing

LOAD"filename",8 (for disk) LOAD"filename" (for tape)

#### Chapter 1

Press RETURN, then type

#### **RUN**

and press RETURN again.

Make sure you've plugged a joystick into port 1.

Miami Ice includes seven screens. The game normally starts at screen 1, but you can begin a new game at any screen by moving the joystick up or down to change the screen number. This lets you skip the easier screens as you become a better player or peek at the hardest screens while you're still a beginner.

#### **Typing**

Look to Chapter 2, page 114, for Miami Ice's typing instructions and "MLX" listing.

#### Source Code

You'll find that the source code for Miami Ice begins on page 210 in Chapter 3.

## Chapter 2 Type It In



# MLX Machine Language Entry Program

Ottis R. Cowper

"MLX" is a labor-saving utility that allows almost fail-safe entry of machine language programs.

Type in and save at least two copies of "MLX" (you'll want to use it to enter future Commodore 64 machine language programs from *COMPUTE!* magazine, *COMPUTE!*'s *Gazette*, and COMPUTE! books). If you're using a Commodore 128, you can still use MLX—you must enter it and any ML programs in 64 mode, however.

When you're ready to enter an ML program, load and run MLX. It asks you for a starting address and an ending address. These addresses appear in the short article accompanying the MLX-format listing of each game. You'll find the listings in Chapter 2.

If you're unfamiliar with machine language, the addresses (and all other values you enter in MLX) may appear strange. Instead of the usual decimal numbers you're accustomed to, these numbers are in *hexadecimal*—a base 16 numbering system commonly used by ML programmers. Hexadecimal—*hex* for short—includes the numerals 0–9 and the letters A–F. But don't worry—even if you know nothing about ML or hex, you should have no trouble using MLX.

After you enter the starting and ending addresses, you'll be offered the option of clearing the workspace. Choose this option if you're starting to enter a new listing. If you're continuing a listing that's partially typed from a previous session, don't choose this option.

A functions menu appears. The first option in the menu is ENTER DATA. If you're just starting to type in a program, pick this. Press the E key, and type the first number in the first line of the program listing. If you've already typed in part of a program, type the line number where you left off typing

at the end of the previous session (be sure to load the partially completed program before you resume entry). In any case, make sure the address you enter corresponds to the address of a line in the listing you are entering. Otherwise, you'll be unable to enter the data correctly. If you press E by mistake, you can return to the command menu by pressing RETURN alone when asked for the address. (You can get back to the menu from most options by pressing RETURN with no other input.)

#### **Entering a Listing**

Once you're in Enter mode, MLX prints the address for each program line for you. You then type in all nine numbers on that line, beginning with the first two-digit number after the colon (:). Each line represents eight data bytes and a checksum. Although an MLX-format listing appears similar to the "hex dump" listings from a machine language monitor program, the extra checksum number on the end allows MLX to check your typing.

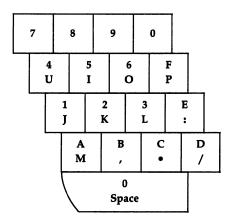
When you enter a line, MLX recalculates the checksum from the eight bytes and the address, and compares this value with the number from the ninth column. If the values match, you'll hear a bell tone, the data will be added to the workspace area, and the prompt for the next line of data will appear. But if MLX detects a typing error, you'll hear a low buzz and see an error message. The line will then be redisplayed for editing.

#### **Invalid Characters Banned**

Only a few keys are active while you're entering data, so you may have to unlearn some habits. You do not type spaces between the columns; MLX automatically inserts these for you. You do not press RETURN after typing the last number in a line; MLX automatically enters and checks the line after you type the last digit.

Only the numerals 0–9 and the letters A–F can be typed in. If you press any other key (with some exceptions noted below), you'll hear a warning buzz. To simplify typing, a keypad is available. The keypad—part of the keyboard—is active only while you're entering data. Addresses must be entered with the normal letter and number keys. The figure below shows the keypad configuration.

#### 64 MLX Keypad



MLX checks for transposed characters. If you're supposed to type in A0 and enter 0A instead, MLX will catch your mistake. There is one error that can slip past MLX: Because of the checksum formula used, MLX won't notice if you accidentally type FF in place of 00, and vice versa. And there's a very slim chance that you could garble a line and still end up with a combination of characters that adds up to the proper checksum. However, these mistakes should not occur if you take reasonable care while entering data.

#### **Editing Features**

To correct typing mistakes before finishing a line, use the INST/DEL key to delete the character to the left of the cursor. (The cursor-left key also deletes.) If you really mess up a line, press CLR/HOME to restart the line. The RETURN key is also active, but only before any data is typed on a line. Pressing RETURN at this point returns you to the command menu. After you type a character of data, MLX disables RETURN until the cursor returns to the start of a line. Remember, you can press CLR/HOME to get to a line number prompt quickly.

More editing features are available when you're correcting lines in which MLX has detected an error. To make corrections in a line that MLX has redisplayed for editing, compare the line on the screen with the one printed in the listing, then move the cursor to the mistake and type the correct key. The

cursor-left and -right keys provide the normal cursor controls. (The INST/DEL key now works as an alternative cursor-left key.) You cannot move left beyond the first character in the line. If you try to move beyond the rightmost character, you'll reenter the line. During editing, RETURN is active; pressing it tells MLX to recheck the line. You can press the CLR/HOME key to clear the entire line if you want to start from scratch or if you want to get to a line number prompt to use RETURN to get back to the menu.

Display Data

The second menu choice, DISPLAY DATA, examines memory and shows the contents in the same format as the program listing (including the checksum). When you press D, MLX asks you for a starting address. Be sure that the starting address you give corresponds to a line number in the listing. Otherwise, the checksum display will be meaningless. MLX displays program lines until it reaches the end of the program, at which point the menu is redisplayed. You can pause the display by pressing the space bar. (MLX finishes printing the current line before halting.) Press the space bar again to restart the display. To break out of the display and get back to the menu before the ending address is reached, press RETURN.

Other Menu Options

Two more menu selections let you save programs and load them back into the computer. These are SAVE FILE and LOAD FILE; their operation is quite straightforward. When you press S or L, MLX asks you for the filename. You'll then be asked to press either D or T to select disk or tape.

You'll notice the disk drive starting and stopping several times during a load or save. Don't panic; this is normal behavior. MLX opens and reads from or writes to the file instead of using the usual LOAD and SAVE commands. Disk users should also note that the drive prefix 0: is automatically added to the filename (line 750), so it should *not* be included when you enter the name. This also precludes the use of @ for Save-with-Replace, so remember to give each version you save a different name.

Remember that MLX saves the entire workspace area from the starting address to the ending address, so the save or load may take longer than you might expect if you've entered only a small amount of data from a long listing. When saving a partially completed listing, make sure to note the address where you stopped typing so that you'll know where to resume entry when you reload.

MLX reports the standard disk or tape error messages if any problems are detected during the save or load. (Tape users should bear in mind that Commodore computers are never able to detect errors during a save to tape.) MLX also has three special load error messages: INCORRECT STARTING ADDRESS, which means the file you're trying to load does not have the starting address you specified when you ran MLX; LOAD ENDED AT address, which means the file you're trying to load ends before the ending address you specified when you started MLX; and TRUNCATED AT ENDING ADDRESS, which means the file you're trying to load extends beyond the ending address you specified when you started MLX. If you see one of these messages and feel certain that you've loaded the right file, exit and rerun MLX, being careful to enter the correct starting and ending addresses.

The QUIT menu option has the obvious effect—it stops MLX and enters BASIC. The RUN/STOP key is disabled, so the Q option lets you exit the program without turning off the computer. (Of course, RUN/STOP-RESTORE also gets you out.) You'll be asked for verification; press Y to exit to BASIC or any other key to return to the menu. After quitting, you can type RUN again and reenter MLX without losing your data, as long as you don't use the clear workspace option.

#### The Finished Product

When you've finished typing all the data for an ML program and saved your work, you're ready to see the results. The instructions for loading and using the finished product vary from program to program. Some ML programs are designed to be loaded and run like BASIC programs, so all you need to type is LOAD "filename",8 for disk or LOAD "filename" for tape, and then RUN. Such programs will usually have a starting address of 0801. Other programs must be reloaded to specific addresses with a command such as LOAD "filename",8,1 for disk or LOAD "filename",1,1 for tape, then started with a SYS to a particular memory address. On the Commodore 64, the most common starting address for such programs is 49152, which corresponds to MLX address C000. In either case, refer

to the general description for each game—you'll find these in Chapter 1.

#### An Ounce of Prevention

By the time you finish typing in the data for a long ML program, you may have several hours invested in the project. Don't take chances—read Appendix A, "How to Type In Programs," use our "Automatic Proofreader" to type in MLX, and then test your copy thoroughly before first using it to enter any significant amount of data. Make sure all the menu options work as they should. Enter fragments of the program starting at several different addresses, then use the Display option to verify that the data has been entered correctly. And be sure to test the Save and Load options several times to insure that you can recall your work from disk or tape. Don't let a simple typing error in the new MLX cost you several nights of hard work.

#### MLX

Read Appendix A before entering program. For error-free entry, use "The Automatic Proof-reader" (Appendix B) to type in this program.

- SS 10 REM VERSION 1.1: LINES 830,950 MODIFIED, LIN ES 485-487 ADDED
- EK 100 POKE 56,50:CLR:DIM IN\$,1,J,A,B,A\$,B\$,A(7),N
- DM 110 C4=48:C6=16:C7=7:Z2=2:Z4=254:Z5=255:Z6=256: Z7=127
- CJ 120 FA=PEEK(45)+Z6\*PEEK(46):BS=PEEK(55)+Z6\*PEEK (56):H\$="0123456789ABCDEF"
- SB 130 R\$=CHR\$(13):L\$="{LEFT}":S\$=" ":D\$=CHR\$(20): Z\$=CHR\$(0):T\$="{13 RIGHT}"
- CQ 140 SD=54272:FOR I=SD TO SD+23:POKE I,0:NEXT:PO KE SD+24,15:POKE 788,52
- FC 150 PRINT"{CLR}"CHR\$(142)CHR\$(8):POKE 53280,15: POKE 53281,15
- EJ 160 PRINT T\$" {RED}{RVS}{2 SPACES}{8 @}

  {2 SPACES}"SPC(28)"{2 SPACES}{OFF}{BLU} MLX

  II {RED}{RVS}{2 SPACES}"SPC(28)"

  {12 SPACES}{BLU}"
- FR 170 PRINT" [3 DOWN] [3 SPACES] COMPUTE! 'S MACHINE {SPACE} LANGUAGE EDITOR [3 DOWN]"
- JB 180 PRINT"{BLK}STARTING ADDRESS[4]";:GOSUB300:S A=AD:GOSUB1040:IF F THEN180
- GF 190 PRINT"{BLK}{2 SPACES}ENDING ADDRESS[4]";:GO
  SUB300:EA=AD:GOSUB1030:IF F THEN190
- KR 200 INPUT"{3 DOWN}{BLK}CLEAR WORKSPACE [Y/N][4]
  ";A\$:IF LEFT\$(A\$,1)<>"Y"THEN220

- PG 210 PRINT"{2 DOWN}{BLU}WORKING...";:FORI=BS TO {SPACE}BS+EA-SA+7:POKE I,0:NEXT:PRINT"DONE"
- DR 220 PRINTTAB(10)"{2 DOWN}{BLK}{RVS} MLX COMMAND MENU {DOWN}E43":PRINT T\$"{RVS}E{OFF}NTER D ATA"
- BD 230 PRINT T\$"{RVS}D{OFF}ISPLAY DATA":PRINT T\$"
  {RVS}L{OFF}OAD FILE"
- JS 240 PRINT T\$"{RVS}S{OFF}AVE FILE":PRINT T\$"
  {RVS}Q{OFF}UIT{2 DOWN}{BLK}"
- JH 250 GET A\$:IF A\$=N\$ THEN250
- HK 260 A=0:FOR I=1 TO 5:IF A\$=MID\$("EDLSQ",I,1)THE N A=I:I=5
- FD 270 NEXT:ON A GOTO420,610,690,700,280:GOSUB1060:GOTO250
- EJ 280 PRINT" {RVS} QUIT ":INPUT" {DOWN } E4 } ARE YOU S
  URE [Y/N]"; A\$:IF LEFT\$ (A\$,1) <> "Y"THEN 220
- EM 290 POKE SD+24,0:END
- JX 300 IN\$=N\$:AD=0:INPUTIN\$:IFLEN(IN\$)<>4THENRETUR
- KF 310 B\$=IN\$:GOSUB320:AD=A:B\$=MID\$(IN\$,3):GOSUB32
  0:AD=AD\*256+A:RETURN
- PP 320 A=0:FOR J=1 TO 2:A\$=MID\$(B\$,J,1):B=ASC(A\$)-C4+(A\$>"0")\*C7:A=A\*C6+B
- JA 330 IF B<0 OR B>15 THEN AD=0:A=-1:J=2
- GX 340 NEXT: RETURN
- CH 350 B=INT(A/C6):PRINT MID\$(H\$,B+1,1);:B=A-B\*C6: PRINT MID\$(H\$,B+1,1);:RETURN
- RR 360 A=INT(AD/Z6):GOSUB350:A=AD-A\*Z6:GOSUB350:PR
  INT":";
- BE 370 CK=INT(AD/Z6):CK=AD-Z4\*CK+Z5\*(CK>Z7):GOTO39
- PX 380 CK=CK\*Z2+Z5\*(CK>Z7)+A
- JC 390 CK=CK+Z5\*(CK>Z5): RETURN
- QS 400 PRINT"{DOWN}STARTING AT [4]";:GOSUB300:IF IN \$<>N\$ THEN GOSUB1030:IF F THEN 400
- EX 410 RETURN
- HD 420 PRINT" {RVS} ENTER DATA ":GOSUB400:IF IN\$=N\$ THEN220
- JK 430 OPEN3,3:PRINT
- SK 440 POKE198,0:GOSUB360:IF F THEN PRINT IN\$:PRIN T"{UP}{5 RIGHT}";
- GC 450 FOR I=0 TO 24 STEP 3:B\$=S\$:FOR J=1 TO 2:IF {SPACE}F THEN B\$=MID\$(IN\$,I+J,1)
- HA 460 PRINT" {RVS} "B\$L\$;: IF I<24THEN PRINT" {OFF}";
- HD 470 GET A\$:IF A\$=N\$ THEN470
- FK 480 IF(A\$>"/"ANDA\$<":")OR(A\$>"@"ANDA\$<"G")THEN5
- GS 485 A=-(A\$="M")-2\*(A\$=",")-3\*(A\$=".")-4\*(A\$="/")-5\*(A\$="J")-6\*(A\$="K")

```
FX 486 A=A-7*(AS="L")-8*(AS=":")-9*(AS="U")-10*(AS
       ="I")-11*(A$="O")-12*(A$="P")
CM 487 A=A-13*(A$=S$):IF A THEN A$=MID$("ABCD123E4
       56FØ",A,1):GOTO 54Ø
MP 490 IF AS=RS AND((I=0)AND(J=1)OR F)THEN PRINT B
       S::J=2:NEXT:I=24:GOTO550
KC 500 IF AS="{HOME}" THEN PRINT B$:J=2:NEXT:I=24:
       NEXT: F=Ø:GOTO44Ø
MX 510 IF(A$="{RIGHT}")ANDF THENPRINT B$L$;:GOTO54
GK 520 IF A$<>L$ AND A$<>D$ OR((I=0)AND(J=1))THEN
       SPACE GOSUB1060:GOTO470
HG 53Ø A$=L$+S$+L$:PRINT B$L$;:J=2-J:IF J THEN PRI
       NT L$;:I=I-3
OS 540 PRINT A$::NEXT J:PRINT S$;
PM 550 NEXT I:PRINT:PRINT"{UP}{5 RIGHT}";:INPUT#3,
       INS:IF INS=NS THEN CLOSE3:GOTO220
OC 560 FOR I=1 TO 25 STEP3:B$=MID$(IN$,I):GOSUB320
       :IF I<25 THEN GOSUB380:A(I/3)=A
PK 570 NEXT: IF A <> CK THEN GOSUB1060: PRINT "{BLK}
       {RVS} ERROR: REENTER LINE [4]":F=1:GOTO440
HJ 580 GOSUB1080:B=BS+AD-SA:FOR I=0 TO 7:POKE B+I,
       A(I):NEXT
OO 590 AD=AD+8:IF AD>EA THEN CLOSE3:PRINT"{DOWN}
       {BLU}** END OF ENTRY **{BLK}{2 DOWN}":GOTO7
       ØØ
GQ 600 F=0:GOTO440
QA 610 PRINT" {CLR } {DOWN } {RVS } DISPLAY DATA ":GOSUB
       400:IF INS=NS THEN220
RJ 620 PRINT "{DOWN}{BLU}PRESS: {RVS}SPACE{OFF} TO
       {SPACE}PAUSE, {RVS}RETURN{OFF} TO BREAK[4]
       { DOWN } "
KS 63Ø GOSUB36Ø:B=BS+AD-SA:FORI=BTO B+7:A=PEEK(I):
       GOSUB350:GOSUB380:PRINT S$;
CC 640 NEXT:PRINT"{RVS}";:A=CK:GOSUB350:PRINT
KH 650 F=1:AD=AD+8:IF AD>EA THENPRINT"{DOWN}{BLU}*
       * END OF DATA **":GOTO220
KC 660 GET A$:IF A$=R$ THEN GOSUB1080:GOTO220
EQ 670 IF A$=S$ THEN F=F+1:GOSUB1080
AD 680 ONFGOTO630,660,630
CM 690 PRINT "[DOWN] {RVS} LOAD DATA ":OP=1:GOTO710
PC 700 PRINT "{DOWN} {RVS} SAVE FILE ":OP=0
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RX 710 IN\$=N\$:INPUT"{DOWN}FILENAME[4]";IN\$:IF IN\$=

FP 730 GET A\$:IF A\$="T"THEN PRINT"T{DOWN}":GOTO880

HH 750 PRINT "D{DOWN}":OPEN15,8,15,"I0:":B=EA-SA:IN

PR 720 F=0:PRINT"{DOWN}{BLK}{RVS}T{OFF}APE OR

{RVS}D{OFF}ISK: [4]";

\$="Ø:"+IN\$:IF OP THEN810

N\$ THEN22Ø

HO 74Ø IF A\$<>"D"THEN73Ø

- SQ 760 OPEN 1,8,8,IN\$+",P,W":GOSUB860:IF A THEN220
- FJ 770 AH=INT(SA/256):AL=SA-(AH\*256):PRINT#1,CHR\$(AL);CHR\$(AH);
- PE 780 FOR I=0 TO B:PRINT#1,CHR\$(PEEK(BS+I));:IF S
  T THEN800
- FC 79Ø NEXT:CLOSE1:CLOSE15:GOTO94Ø
- GS 800 GOSUB1060:PRINT"{DOWN}{BLK}ERROR DURING SAV E: [4]":GOSUB860:GOTO220
- MA 810 OPEN 1,8,8,IN\$+",P,R":GOSUB860:IF A THEN220
- GE 820 GET#1,A\$,B\$:AD=ASC(A\$+Z\$)+256\*ASC(B\$+Z\$):IF AD<>SA THEN F=1:GOTO850
- RX 830 FOR I=0 TO B:GET#1,A\$:POKE BS+I,ASC(A\$+Z\$): IF(I<>B)AND ST THEN F=2:AD=1:I=B
- FA 840 NEXT: IF ST <> 64 THEN F=3
- FQ 850 CLOSE1:CLOSE15:ON ABS( $F>\emptyset$ )+1 GOTO960,970
- SA 860 INPUT#15,A,A\$:IF A THEN CLOSE1:CLOSE15:GOSU B1060:PRINT"{RVS}ERROR: "A\$
- GQ 87Ø RETURN
- EJ 880 POKE183, PEEK (FA+2): POKE187, PEEK (FA+3): POKE1 88, PEEK (FA+4): IFOP=0THEN920
- HJ 890 SYS 63466:IF(PEEK(783)AND1)THEN GOSUB1060:P RINT"{DOWN}{RVS} FILE NOT FOUND ":GOTO690
- CS 900 AD=PEEK(829)+256\*PEEK(830):IF AD<>SA THEN F =1:GOTO970
- SC 910 A=PEEK(831)+256\*PEEK(832)-1:F=F-2\*(A<EA)-3\*
  (A>EA):AD=A-AD:GOTO930
- KM 920 A=SA:B=EA+1:GOSUB1010:POKE780,3:SYS 63338
- JF 930 A=BS:B=BS+(EA-SA)+1:GOSUB1010:ON OP GOTO950 :SYS 63591
- AE 940 GOSUB1080:PRINT"{BLU}\*\* SAVE COMPLETED \*\*":
  GOTO220
- XP 950 POKE147,0:SYS 63562:IF ST>0 THEN970
- FR 960 GOSUB1080:PRINT"{BLU}\*\* LOAD COMPLETED \*\*":
  GOTO220
- DP 970 GOSUB1060:PRINT"{BLK}{RVS}ERROR DURING LOAD :{DOWN}[4]":ON F GOSUB980,990,1000:GOTO220
- PP 980 PRINT"INCORRECT STARTING ADDRESS (";:GOSUB3 60:PRINT")":RETURN
- GR 990 PRINT LOAD ENDED AT ";:AD=SA+AD:GOSUB360:PR INT D\$:RETURN
- FD 1000 PRINT "TRUNCATED AT ENDING ADDRESS": RETURN
- RX 1010 AH=INT(A/256):AL=A-(AH\*256):POKE193,AL:POK E194,AH
- FF 1020 AH=INT(B/256):AL=B-(AH\*256):POKE174,AL:POK E175,AH:RETURN
- FX 1030 IF AD<SA OR AD>EA THEN1050
- HA 1040 IF(AD>511 AND AD<40960)OR(AD>49151 AND AD< 53248)THEN GOSUB1080:F=0:RETURN
- HC 1050 GOSUB1060:PRINT" RVS INVALID ADDRESS {DOWN } BLK } ":F=1:RETURN

#### Chapter 2

AR	1060	POKE SD+5,31:POKE SD+6,208:POKE SD,240:POK
		E SD+1,4:POKE SD+4,33
DX	1070	FOR S=1 TO 100:NEXT:GOTO1090
PF	1080	POKE SD+5,8:POKE SD+6,240:POKE SD,0:POKE S
		D+1,90:POKE SD+4,17
AC	1090	FOR S=1 TO 100:NEXT:POKE SD+4,0:POKE SD,0:

POKE SD+1,0:RETURN

### Program 1 CUT-OFF!

Assuming that you have a copy of MLX typed in and saved to disk or tape, load and run it. You'll be asked to provide two addresses before you begin entering CUT-OFF!. Respond to the questions with

Starting address: C000 Ending address: C5D7

You're ready to start.

#### CUT-OFF!

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
CØØØ:2Ø C1 C1 4C Ø6 CØ AD 42
CØØ8:03 18 69 Ø1 8D
                    42 Ø3 AD
                               77
CØ1Ø:43 Ø3 69 ØØ 8D 43 Ø3 AE
                              4F
CØ18:3C Ø3
           2Ø
               8A C3 A9
                        Ø1 8D
                               79
CØ2Ø:41 Ø3 2Ø
               C4
                  C3 A2
                        Ø2 A1
CØ28:F7 C9 2Ø
               FØ
                  20 20
                        93 C3
                              97
                        AD 44
CØ3Ø:2Ø 66 C5
               2Ø DØ
                    C2
CØ38:Ø3 C9 ØØ FØ 53 AD
                        45 Ø3 9B
                               27
CØ40:C9 ØØ FØ
              4C
                  2Ø
                     BE
                        CØ
                            2Ø
                        93 C3 F7
CØ48:43 C4 4C Ø6 CØ
                     2Ø
CØ5Ø:A9 ØØ 8D 41
                  Ø3
                     2Ø
                        C4 C3 52
CØ58:A2 ØØ A1 F7
                  C9
                     2Ø
                        FØ
                            20
                              AF
CØ6Ø:2Ø 93 C3
               2Ø
                  66 C5
                        20 DØ AC
                  C9
                            2Ø BF
CØ68:C2 AD 44
               ØЗ
                     ØØ
                        FØ
CØ7Ø:AD 45 Ø3 C9
                  ØØ FØ
                        19
                            2Ø
                               2D
CØ78:BE CØ 2Ø 43 C4 4C
                        Ø6 CØ E5
                     DC
                        2D ØØ 2Ø
CØ8Ø:2Ø 93 C3
               AD
                  Ø1
CØ88:DC 29 10 FØ Ø6 4C Ø6
                            CØ Ø2
CØ90:4C F4 C4 AD Ø1 DC
                        2D ØØ BE
CØ98:DC 29 1Ø FØ
                  F6
                     A2
                        FA
                            20
                               3C
                            DC 96
CØAØ:8A C3 AD Ø1
                  DC
                     2D ØØ
        10 D0
               F6
                  AD Ø1
                        DC
                            2D A4
CØA8:29
CØBØ:00 DC 29
               1Ø
                  FØ
                     F6
                        A2
                            FA 33
CØB8:20 8A C3 4C 06 CØ A9
                           93 44
CØCØ:2Ø D2 FF
               Α9
                  ØF
                     8D
                        2Ø
                            DØ
                               61
                  ØØ
                     Α9
                         ΑØ
                           9D
CØC8:8D
        21 DØ
               A2
                               23
        Ø4 A9 ØØ
CØDØ:ØØ
                  9D ØØ
                        D8 E8 1Ø
                     ØØ A9
                            ΑØ
                               17
CØD8:EØ
         28 DØ
               F1
                  A2
CØEØ:9D CØ Ø7 A9
                  ØØ
                     9D CØ
                           DB BØ
CØE8:E8 EØ 28 DØ F1 A9 ØØ 85 E4
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CØFØ:FD A9 Ø4 85 FE A9 ØØ 85 D8 CØF8:FB A9 D8 85 A2 FC ØØ Α9 72 C100:A0 A0 00 91 FD Α9 ØØ 91 3D FD A9 C108:FB A0 27 Α9 ΑØ 91 22 C110:00 91 FB 18 A5 FD 69 28 C118:85 FD A5 FE 69 ØØ 85 FE D7 C120:18 **A5** FB 69 28 85 FB A5 24 85 FC C128:FC 69 ØØ E8 EØ 19 43 C130:D0 CD A9 Ø5 A2 1Ø 9D ØØ A5 C138:D8 E8 EØ 18 DØ F8 A9 83 41 C140:8D 10 04 A9 95 8D 11 Ø4 B2 C148:A9 94 8D 12 Ø4 A9 AD 8D 48 C150:13 04 A9 8F 8D 14 Ø4 A9 FA C158:86 8D 15 Ø4 8D 16 Ø4 A9 DB C160:A1 8D 17 Ø4 A9 Ø6 8D C7 83 C168:D9 A9 Ø2 8D D1 D9 A9 51 F6 C170:8D C7 Ø5 A9 57 8D D1 Ø5 81 C178:A9 ØØ 8D 42 Ø3 8D 43 Ø3 7E C180:A9 07 8D 4B 03 Α9 63 ØB 8D C188:4A Ø3 A9 D1 8D 46 Ø3 A9 C190:05 8D 47 03 A9 C7 8D 48 E2 C198:03 A9 Ø5 8D 49 ØЗ 18 A2 AA ClA0:00 A0 07 2Ø FØ FF AE 3D 51 ClA8:03 AD 3E Ø3 2Ø CD BD 18 DC ClBØ:A2 ØØ AØ 1D 2Ø FØ FF AE DE ClB8:3F Ø3 AD 4Ø Ø3 2Ø CD BD 48 C1C0:60 A9 00 8D 3D ØЗ 8D 3E Ø7 C1C8:03 8D 3F Ø3 8D 4Ø Ø3 A9 66 57 C1DØ:51 8D 4D Ø3 A9 8D 4C C1D8:03 20 BE CØ A9 Ø5 A2 Ø9 79 Cle0:9D FØ D8 E8 EØ 1E DØ F8 33 Ø9 9D 4Ø D9 C1E8:A2 E8 EØ 1E ØA F8 8D A3 A2 C1FØ:DØ D9 ØØ BD 1E C1F8:A4 C2 FØ Ø6 9D F9 Ø4 E8 C3 C200:D0 F5 A2 00 BD BA C2 FØ ØF C2Ø8:Ø6 9D 49 Ø5 E8 DØ F5 Α9 91 C210:30 8D 3C Ø3 8D A3 Ø5 A2 7Ø C218:64 20 8A C3 AD Ø1 DC 29 В9 C220:0F C9 0E F0 21 C9 ØD FØ AB C228:0A AD 01 DC 29 1Ø FØ 3F C23Ø:4C 17 C2 AD 3C Ø3 38 E9 1D C238:01 C9 2F FØ 1C 8D 3C Ø3 38 C240:8D A3 Ø5 4C 17 C2 AD 3C 36 C248:03 18 69 01 C9 3A FØ 14 BF C250:8D 3C 03 8D A3 Ø5 4C 17 C<sub>5</sub> C258:C2 A9 39 8D 3C Ø3 8D A3 4C 17 C2 A9 ЗØ 8D 3C EF C260:05 C268:03 8D A3 Ø5 4C 17 C2 AD 89 DC 29 10 F0 F9 A2 FA 83 C27Ø:Ø1 C278:20 8A C3 AD 3C 03 38 E9

C28Ø:3Ø AA A9 32 8D 3C Ø3 EØ C288:00 F0 ØD AD 3C Ø3 38 E9 ØF C290:05 8D 3C ØЗ CA 4C 87 C2 ØD C298:20 BE CØ A9 ØA 8D 44 Ø3 A2 C2AØ:8D 45 ØЗ 6Ø ØD ØF 16 Ø5 7A C2A8:20 ØA ØF 19 13 14 Ø9 Ø3 32 C2BØ:ØB 2Ø 15 1Ø 2F Ø4 ØF 17 26 C2B8:ØE ØØ 14 ØF 2Ø ØЗ Ø8 ØF E4 Ø5 20 C2CØ:ØF 13 13 ØB Ø9 ØC 18 C2C8:ØC 2Ø ØC Ø5 16 Ø5 ØC ØØ ØB C2DØ:AD 46 Ø3 CD 48 ØЗ FØ Ø3 2F C2D8:4C 5C C3 AD 47 ØЗ CD 49 1 A C2E0:03 D0 79 AD 4B Ø3 ΑE 4A 34 C2E8:03 C9 ØE FØ ØC C9 Ø7 FØ В9 C2FØ:ØF C9 ØD FØ 12 C9 ØВ FØ DF C2F8:15 EØ ØD FØ 18 4C 5C C3 6Ø C300:E0 0B F0 11 4C 5C C3 ΕØ 26 C3Ø8:ØE FØ ØA 4C 5C C3 ΕØ Ø7 C310:FØ Ø3 4C 5C C3 AD 3D Ø3 72 C318:18 6D 42 Ø3 8D 3D ØЗ AD 94 C320:3E Ø3 69 ØØ 8D 3E Ø3 AD CD ØЗ C328:43 Ø3 18 6D 3E 8D 3E 43 C330:03 AE 44 Ø3 CA 8E 44 Ø3 В9 C338:AD 3F Ø3 18 6D 42 Ø3 8D 5Ø 4Ø Ø3 C340:3F Ø3 AD 69 ØØ 8D 2D C348:40 Ø3 AD 43 Ø3 18 6D 4Ø 2E C350:03 8D 4Ø Ø3 AE 45 ØЗ CA 5Ø C358:8E 45 ØЗ 6Ø AD 41 Ø3 ØA 61 C360:AA BD 3D Ø3 18 6D 42 Ø3 82 C368:9D 3D Ø3 BD 3E ØЗ 69 ØØ 1B C37Ø:9D 3E Ø3 **AD 43** ØЗ 18 7D 65 9D 3E Ø3 C378:3E Ø3 ΑE 41 Ø3 CF C380:BD 44 Ø3 38 E9 Ø1 9D 44 AE C388:03 60 AØ ØØ **C8** DØ FD CA ØE C390:D0 F8 60 AE 41 ØЗ BC 4C 91 C398:03 8A 0A AA B5 F7 9D 46 3F F8 9D 47 ØЗ 98 81 Ø9 C3AØ:03 **B5** C3A8:F7 B5 F8 18 69 **D4** 95 F8 FC C3BØ:EØ Ø2 DØ Ø8 A9 Ø6 81 F7 24 C5 C3B8:2Ø 99 6Ø A9 Ø2 81 F7 C3CØ:2Ø 99 C5 6Ø AE 41 ØЗ BD BB 29 C3C8:00 DC ØF C9 ØE FØ 12 18 C3DØ:C9 Ø7 FØ 26 C9 ØD FØ 3A 1E C3D8:C9 ØB FØ 4E BD 4A Ø3 4C 74 C3E0:CC C3 9D 4A Ø3 8A ØA AA 19 C3E8:38 BD 46 Ø3 E9 28 95 F7 Ø8 C3FØ:BD 47 ØЗ E9 ØØ 95 F8 4C BC C3F8:42 C4 9D 4A Ø3 8A ØA AA 2C 46 Ø3 C400:18 BD 69 Ø1 95 F7 7Ø C408:BD 47 03 69 00 95 F8 4C CD C410:42 C4 9D 4A 03 SA ØA AA C418:18 BD 46 Ø3 69 28 95 F7 25 C420:BD 47 ØЗ 69 ØØ 95 F8 4C E5 C428:42 C4 9D 4A Ø3 8A ØA AA 5D 46 Ø3 E9 Ø1 95 F7 **B4** C430:38 BD F8 4C Ø6 47 Ø3 E9 ØØ 95 C438:BD C440:42 C4 6Ø A2 ØØ BD D4 C4 В7 DØ F5 Ø6 9D FF Ø4 **E8** DA C448:FØ C4 FØ Ø6 9D 94 C450:A2 ØØ BD E1 C458:4F Ø5 E8 DØ F5 A2 ØØ BD EC 9D 11 Ø6 E8 В6 C460:ED C4 FØ Ø6 C4 FØ 4C C468: DØ F5 A2 ØØ BD ED 9D 21 Ø6 E8 DØ F5 Α9 Ø9 C470:06 D8 E8 EØ C478:05 A2 Ø9 9D FØ C5 F8 A2 Ø9 9D 4Ø D9 AF C480:1E DØ F8 A2 Ø1 9D 81 C488:E8 EØ 1E DØ C490:08 DA E8 ΕØ 25 DØ F8 18 76 ØF 2Ø FØ FF AE 2F C498:A2 ØD AØ 20 CD 8E C4AØ:45 Ø3 A9 ØØ BD 18 C4A8:A2 ØD AØ 1F 2Ø FØ FF ΑE 40 **B3** C4BØ:44 Ø3 A9 ØØ 2Ø CD BD AD C4B8:01 DC 2D ØØ DC 29 10 D0 1 C AD Ø1 DC 2D ØØ DC 29 6B C4CØ:F6 C4C8:10 F0 F6 A2 ØØ 2Ø 8A C3 F8 1Ø 12 Ø5 13 1E C4DØ:2Ø BE CØ 6Ø 15 14 14 ØF ØE A2 C4D8:13 2Ø Ø2 C4E0:00 14 0F 2Ø Ø3 ØF ØE 14 D7 ØC C5 C4E8:09 ØE 15 Ø5 ØØ Ø9 16 2Ø BE CØ A2 89 C4FØ:05 13 3D ØØ C4F8:00 BD 41 C5 FØ Ø6 9D ØØ 51 4B 9D C500:05 E8 D0 F5 A2 ØØ BD C5Ø8:C5 FØ Ø6 9D 47 Ø5 E8 DØ 3E Ø5 A2 Ø1 9D FØ D8 Ø5 C510:F5 A9 9D 13 C518:E8 EØ 1E DØ F8 A2 Ø1 C520:40 D9 E8 ΕØ 25 DØ F8 AD 79 C528:01 DC 2D ØØ DC 29 10 D0 8D DC 2D ØØ DC 29 DC C53Ø:F6 AD Ø1 Cl Cl 4C Ø6 9C C538:10 FØ F6 20 2Ø C540:CØ Ø7 Ø1 ØD Ø5 ØF 16 BB 12 ØØ 1Ø 12 Ø5 13 13 **B9** C548:05 14 ØF ØE 2Ø 69 C55Ø:2Ø Ø2 15 14 C558:14 ØF 2Ø 1Ø ØC Ø1 19 2Ø 6D ØE ØØ A9 ØF Bl Ø1 Ø9 C560:01 07 18 D4 A9 81 8D Ø4 D4 15 C568:8D C570:A9 09 8D Ø5 D4 A9 64 8D B8 C578:00 D4 A9 0C 8D Ø1 **D4** A9 F2 C580:0F 8D 20 D0 A2 28 2Ø 8A 88 DØ 38 E9 Ø1 C9 ØØ Fl 33 C588:C3 8D Ø4 D4 8D Ø5 D4 C590:A9 00

#### Type It In

C598:60 A9 Ø8 8D 18 D4 A9 10 10 C5A0:8D Ø5 D4 A9 80 8D Ø6 D4 84 C5A8:A9 ØA A2 ØØ 18 6D 41 Ø3 DB C5B0:E8 EØ ØA DØ F7 8D Ø1 D4 Ø4 C5B8:A9 25 8D ØØ D4 A9 21 8D 31 C5C0:04 D4 AE 3C Ø3 20 8A C3 8E C5C8:A9 ØØ 8D Ø4 D4 8D Ø5 D4 D6 C5D0:8D Ø6 D4 60 ØØ ØØ ØØ ØØ ØØ

### Program 2 Nessie

Once you've typed in and saved a copy of MLX to disk or tape, load and run it. As always, you have to provide the starting and ending addresses for the MLX listing. In Nessie's case, these are

Starting address: C000 Ending address: CBC7

You can now begin to type in the game. Refer to the first article in this chapter, "MLX: Machine Language Entry Program," for instructions on entering Nessie in more than one session and for saving the final program to disk.

#### Nessie

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
CØØØ:A9 47 85 FB A9
                     C7
                        85
                              ØD
CØØ8:A9 ØØ 85 FD A9
                     38 85 FE
                              27
CØ1Ø:A2 Ø4 AØ FF B1 FB 91 FD
                              96
CØ18:88 CØ FF DØ F7 E6 FC E6
CØ2Ø:FE CA 3Ø Ø7 DØ EE AØ 7F
                              4D
CØ28:4C 14 CØ C6 FE
                     AØ 8Ø A9
                              7E
CØ3Ø:ØØ 91 FD C8 DØ
                     FB A9 FF
                              2C
CØ38:8D ØE D4 8D ØF
                              17
                    D4 A9 8Ø
CØ4Ø:8D 12 D4 A9 ØØ
                     8D 18 D4
                              7 D
CØ48:A9 FC 8D 1B DØ A2 Ø5 2Ø
CØ5Ø:BD Cl A9 8Ø 9D CD CB 9D
                              B7
CØ58:D3 CB A9 ØØ 9D C7
                        CB
                           BD
                              4D
CØ6Ø:18 C7 9D 29 DØ
                     BD
                        2Ø
                              AB
CØ68:9D FA Ø7 8A ØA A8 A9
                           ØØ
                              47
CØ7Ø:99 Ø5 DØ
              CA 10
                     D9 AD
                           16
                              2Ø
CØ78:C7 8D 27 DØ AD
                     17 C7 8D
                              1A
CØ80:28 DØ AD 1E C7 8D F8 Ø7
                              4F
CØ88:AD 1F C7
              8D F9
                     Ø7
                        A9 ØØ
                              R9
CØ9Ø:8D EC CB A9 AØ
                     8D EB CB
                              Ø7
CØ98:8D ØØ DØ 8D Ø2
                    DØ A9 8Ø
                              FA
CØAØ:8D ED CB
              8D Ø1 DØ
                        8D Ø3
                              20
CØA8:DØ A9 FF 8D 15
                    DØ 8D 1C
                              F8
CØBØ:DØ A9 Ø3 8D 1D DØ 8D 17
                              9C
CØB8:DØ A9 Ø6
              8D 2Ø DØ
                        8D 21
                              27
              8D 25
CØCØ:DØ A9 Ø5
                    DØ
                        A9 Ø4
                              52
CØC8:8D 26
           DØ
              A9 Ø1
                     8D F6 CB
                              47
CØDØ:20 E7 C1 78 A9 76 8D 14 72
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8D 15 Ø3 CØD8:03 A9 C4 58 AØ BD CØEØ:00 84 Ø7 98 ØA AA B9 C7 24 CØE8:CB 4A 66 В9 CD 9D 5A Ø7 CB CØFØ:Ø4 DØ В9 D3 CB 9D Ø5 DØ CC CØF8:C9 32 90 Ø7 C9 E5 ВØ ØЗ B8 ClØØ:4C ØE Cl В9 E5 CB 49  $\mathbf{F}\mathbf{F}$ C1Ø8:18 69 Ø1 99 E5 CB B9 C7 45 CllØ:CB FØ ØA B9 CD CB C9 4Ø Ø4 C118:BØ ØD 4C 3E C1 В9 CD CB C120:C9 18 90 03 4C 3E C1 A9 59 C128:00 99 DF CB B9 D9 CB 49 ΕØ C130:FF 18 69 99 Ø1 D9 CB C9 8C C138:FF DØ Ø3 99 DF CB B9 FA 86 C140:07 49 Ø1 99 FA Ø7 В9 D9 94 C148:CB AA B9 FA Ø7 Ø9 Ø2 99 3D C150:FA 07 E0 Ø1 FØ Ø5 49 Ø2 6F C158:99 FA Ø7 18 B9 CD CB 79 DF C160:D9 CB 99 CD CB В9 C7 **CB 74** C168:79 DF CB 99 C7 CB 18 B9 ØB C170:D3 CB E5 CB 79 99 D3 CB 96 C178:C8 CØ Ø6 FØ Ø3 4C E3 CØ 32 C180:AD 10 DØ 29 Ø3 Ø5 Ø7 8D 53 C188:10 DØ AE F5 CB FØ Ø8 AØ 5Ø C190:00 88 DØ FD CA DØ FA AD 6D C198:1B D4 C9 8Ø 9Ø ØB AD 1B 47 ClAØ: D4 C9 Ø6 BØ F9 AA 20 BD 45 C1A8:C1 2Ø E4 FF FØ ØC C9 88 85 C1BØ:DØ Ø3 4C DØ C5 2Ø E4 FF 6C ClB8:FØ FB 4C DF CØ A9 ØØ 9D 85 CB AD 1B D4 29 Ø3 A8 C1CØ:DF 88 C1C8:B9 3C C7 9D D9 CB C9 FF 9C ClDØ:DØ Ø3 9D DF CB AD 1B D4 4F ClD8:29 Ø3 A8 B9 3C C7 9D E5 84 Cleø:CB lD D9 CB FØ D7 6Ø A9 DA Cle8:00 8D EF CB 8D F0 CB 8D DF C1FØ:F1 CB 8D F2 CB 8D F3 CB 89 C1F8:8D 4C CC A9 14 8D F4 CB 17 C200:A9 05 8D F5 CB A9 BF AØ D1 C2Ø8:C2 2Ø 1E AB A9 FØ AØ C2 8A C210:20 1E AB 2Ø E4 FFFØ FΒ **A9** C218:C9 85 DØ 12 A9 ΕØ 8D F8 Ø4 C220:07 A9 E1 8D F9 Ø7 A9 ØØ E7 C228:8D F3 CB 4C 13 C2 C9 86 6D C230:DØ 12 A9 E2 8D F8 Ø7 A9 ØE C238:E3 8D F9 Ø7 A9 Ø1 8D F3 23 C240:CB 4C 13 C2 C9 87 DØ 1E 79 C248:EE F5 CB AD F5 CB 1Ø Ø5 1B C250:A9 09 8D F5 CB C9 ØA 9Ø 28 C258:05 A9 ØØ 8D F5 CB Ø9 3Ø C4 C260:8D 06 04 4C 13 C2 C9 88

C268:FØ 33 C9 8C DØ A5 EE 4C 7C 32 C270:CC 20 9D C2 A2 ΑØ 28 C278:AD 1B D4 C9 **A7** ВØ F9 85 4C 1B D4 C28Ø:FD AD 29 ØЗ 18 69 10 FE A9 C288:04 85 ΑØ 91 FD A5 **D8** C290:FE 69 D4 85 FE Α9 ØØ 91 13 C298:FD CA DØ DC 6Ø Α9 BF AØ 81 C2AØ:C2 20 1E AB AD F5 CB Ø9 C2A8:30 8D 06 04 38 Α9 Ø9 ED 13 C2BØ:F5 CB 8D F5 CB ØE F5 **CB 83** CB ØE F5 CB 6Ø C2B8:ØE F5 93 5Ø C2CØ:92 ØE 9F D3 5Ø 45 45 44 AΑ 35 2Ø 2Ø 2Ø 2Ø C2C8:3A 9E 2Ø 9D C2DØ:2Ø 2Ø 2Ø 9A CE 45 53 53 20 2Ø 2Ø 2Ø C2D8:49 45 20 2Ø 3C C2EØ:9B C6 49 4C 4D 20 CC 45 9D C2E8:46 54 3A 9E 32 3Ø ØD ØØ 44 C2FØ:99 12 46 31 92 3A D4 45 1Ø 54 4F 2Ø C2F8:4C 45 5Ø 48 4F ØF 49 C3ØØ:12 46 33 92 3A D7 44 В9 C3Ø8:45 2Ø C1 4E 47 4C 45 20 6D 5Ø 45 Ø9 C310:12 46 35 92 3A D3 C318:45 44 ØD 12 46 37 92 3A 84 C320:C5 41 53 59 20 C7 41 4D CA 3A C8 C328:45 20 12 46 38 92 4A 52 44 2Ø C7 41 4D 45 9A C330:41 C338:00 AD 00 DC 48 29 1Ø 8D 80 C340:EE CB 68 29 ØF 49 ØF AA 38 7D C7 4F C348:18 AD EB CB 31 8D DØ 8D Ø2 DØ Ø4 C350:EB CB 8D ØØ 26 C7 8D EC 9B C358:AD EC CB 7D C360:CB 4A Ø8 AD 10 D0 4A 4A DE C368:28 Ø8 2A 28 2A 8D 1Ø DØ 46 **E3** C370:18 AD ED CB 7 D 3C C7 8D C378:ED CB 8D Ø1 DØ 8D ØЗ DØ 3F CB FØ ØØ 8D ØD Α9 BF C38Ø:AD EE 8D F6 CB 4C 7Ø C388:F7 CB A9 Ø1 C390:A0 C3 AD F7 CB FØ 17 AD 8C C398:F6 CB FØ Ø4 CE F6 CB 60 37 2Ø 21 Ø2 C3AØ:A9 Ø6 8D DØ 8D DØ C3A8:A9 8Ø 8D Ø4 D4 6Ø CE 26 ØЗ C3BØ:04 AD 26 04 C9 2F 3Ø BØ 14 C3B8:A9 39 8D 26 Ø4 CE 25 Ø4 21 31 A9 85 C3CØ:AD 25 Ø4 C9 ВØ Ø5 92 C3C8:2Ø 8D 25 Ø4 A9 1F 8D Ø5 C3DØ:D4 8D 18 D4 A9 ØЗ 8D Ø6 FØ 8D Ø1 C3D8:D4 A9 FF 8D ØØ D4 7D C3E0: D4 8D 04 D4 A9 Ø4 8D 4A C6 C3E8:CC A2 Ø6 AC F4 CB 88 A9 9C C3FØ:ØØ 99 2Ø CC AD 4A CC Ø9 E8

C3F8:02 8D 15 DØ AD 1E DØ 20 3C C400:7F C4 AD 1E D0 29 FD 19 52 C4Ø8:2Ø CC 99 2Ø CC ØE 4A CC ØA C410:CA DØ El A9 Ø1 8D 2Ø DØ 59 C418:8D 21 DØ 8D F7 CB A9 Ø4 E9 C420:8D 4A CC A2 06 A9 ØØ 99 37 C428:34 CC AD 4A CC Ø9 Ø1 8D 73 C430:15 DØ AD 1E DØ 2Ø 7F C4 DA C438:AD 1E DØ 29 FE 19 34 CC 5 E C440:99 34 CC ØE 4A CC CA DØ ØA C448:E1 AD 1F DØ 2Ø 7F C4 AD 55 C450:1F DØ 99 F8 CB AD ØØ DC 52 C458:29 ØF 49 ØF 99 ØC CC A9 94 C460:FF 8D 15 DØ CE F4 CB AD 8C C468:F4 CB FØ 26 C9 Ø5 DØ Ø5 **E8** C470:A9 07 8D 28 D0 60 20 89 96 C478:C4 2Ø 39 C3 4C 31 EA 20 EC C480:82 C4 AD 12 DØ C9 FF DØ D1 C488:F9 EE F1 CB DØ ØЗ EE F2 29 C490:CB 60 A9 93 20 D2 FF A9 7C C498:00 8D 20 D0 8D 21 DØ 78 Al C4AØ:A9 ØF 8D 14 Ø3 A9 C6 8D 8F C4A8:15 Ø3 A9 Ø1 8D la DØ A9 E2 C4BØ:1B 8D 11 DØ A9 32 8D 12 9D C4B8:DØ A9 7F 8D ØD DC A9 FF ØD C4CØ:8D 1B DØ A9 ØØ 8D 4B CC 26 C4C8:A9 1F 8D 15 DØ A9 FF 8D AC C4DØ:1D DØ 8D 17 DØ A9 10 8D 1B C4D8:10 D0 A2 00 8A 0A A8 0A CA C4E0:0A 0A 0A 0A 18 69 1D 99 ØE C4E8:00 D0 A9 Ø9 9D 27 DØ E8 8Ø C4F0:E0 05 D0 E8 58 A2 13 AØ E8 C4F8:00 BD F8 CB 29 Ø3 1D ØC 69 C500:CC F0 0A A9 F1 99 65 C6 C5Ø8:A9 ØØ 4C 56 C5 BD 34 CC B1 C510:29 40 DØ 2C BD 34 CC DØ 46 C518:ØA A9 F2 99 65 C6 A9 ØØ A4 C520:4C 56 C5 8E 48 CC BD 34 2E C528:CC A2 ØØ 4A BØ Ø4 E8 4C 1B C53Ø:2B C5 BD 1E C7 99 65 C6 92 C538:AE 48 CC A9 56 C5 2D Ø5 4C C540:BD 2Ø CC FØ ØA Α9 FØ 99 CD C548:65 C6 A9 ØA 4C 56 C5 A9 FE C550:EC 99 65 C6 A9 C8 18 6D DF C558:EF CB 8D EF CB AD FØ CB 42 C560:69 ØØ 8D FØ CB CA C8 CØ 3D C568:14 DØ 8E 2Ø 79 C6 AD EF 38 C570:CB ØD FØ CB FØ 1D 38 AD 1A C578:EF CB ED F2 CB 8D EF CB 1C C580:AD FØ CB E9 ØØ 8D FØ CB 1B

C588:AD 4C CC FØ Ø6 ØE EF C590:2E FØ CB A2 18 AØ ØØ 18 6E C598:20 FØ FF A9 EC AØ C5 2Ø ΑØ C5AØ:1E AB AE EF CB AD FØ CB BD 2Ø D2 FF C5A8:20 CD BD A9 30 В1 DØ Ø5 Α9 3Ø 2Ø E5 C5BØ:AD F3 CB C5B8:D2 FF A2 78 2Ø 7F C4 CA DC C5CØ:DØ FA AD ØØ DC 29 1Ø FØ C5 C5C8:F9 AD ØØ DC 29 1Ø DØ F9 AF C5DØ:78 A9 ØØ 8D 1A DØ A9 FF 43 C5D8:8D ØD DC A9 31 8D 14 Ø3 8F C5EØ:A9 EA 8D 15 Ø3 58 A2 FF BD FΑ C5E8:9A 4C ØØ CØ 9F DØ 4C 41 C5FØ:59 20 41 47 41 49 4E 3A D3 C5F8:D3 4E 41 5Ø 20 53 48 55 63 C6ØØ:54 54 45 52 2Ø 9A D3 43 FØ C6Ø8:4F 52 45 3A 9E 12 ØØ AD Ø9 18 69 Ø2 8D Ø1 DØ C610:12 DØ 8D C618:8D Ø3 DØ 8D Ø5 DØ 8D Ø7 AD C620: DØ 8D Ø9 DØ 8D ØB DØ AE 9Ø 7A C628:4B CC BD 61 C6 **A8** A2 ØØ C630:B9 65 C6 9D F8 Ø7 C8 E8 05 C638:EØ Ø5 DØ F4 EE 4B CC AD CC C640:4B CC C9 Ø4 DØ Ø5 Α9 ØØ ØE 32 C648:8D 4B CC AA BD 5D C6 8D C650:12 DØ A9 Ø1 8D 19 DØ 68 3B 92 4C C658:A8 68 AA 68 40 31 61 C660:C2 ØØ Ø5 ØA ØF ΕØ El E2 33 E2 E4 42 C668:E3 E4 E4 E3 El El E3 El ΕØ 96 C670:E3 E2 E4 EØ El C678:E5 A2 ØØ A9 Ø7 9D ØØ D8 C3 DA 9D ØØ 98 C680:9D ØØ D9 9D ØØ F1 A9 ØØ 85 FD CD C688:DB E8 DØ C690:A9 04 8D 49 CC 85 FEΑ9 5E C698:05 8D 48 CC AØ ØØ Α9 7Ø AA Ø6 A9 40 91 A2 C6AØ:91 FD C8 A2 C6A8:FD C8 CA DØ FA A9 6E 91 BA 48 CC AD 48 CC 48 C6BØ:FD C8 CE 2Ø Ø8 C7 CD ΑØ C6B8:DØ E4 A2 Ø4 C6C0:00 18 A9 5D 91 FD98 69 7 E **C8** CØ E5 C6C8:07 A8 A9 5D 91 FD C6DØ:28 9Ø EF E6 2Ø Ø8 AB CA DØ 8D 48 CC AØ ØØ E4 A9 Ø5 C6D8:C7 37 C6EØ:A9 6D 91 FD C8 A2 Ø6 A9 FA A9 8Ø C6E8:40 91 FD C8 CA DØ C8 CE 48 CC AD CC C6FØ:7D 91 FD C6F8:48 CC DØ E4 2Ø Ø8 C7 CE C5 6Ø DC C7ØØ:49 CC AD 49 CC DØ 9Ø FD A5 28 85 7C C7Ø8:A5 FD 18 69 C710:FE 69 00 85 FΕ 6Ø ØA ØE

C718:09 Ø9 Øl Ø1 Ø7 ΕØ Ø9 El 9E C720:E4 E4 E8 E8 EC E4 ØØ ØØ Ø2 C728:00 ØØ FF FF FF ØØ ØØ ØØ в7 C73Ø:ØØ ØØ ØØ ØØ ØØ FF FF FF BF C738:00 01 Ø1 Ø1 ØØ FF Ø1 ØØ **3A** C740:00 FF Øl ØØ ØØ FF Ø1 ØØ Fl C748:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ D7 C750:00 8Ø ØØ ØØ 8Ø ØØ Ø2 ΑØ **A8** C758:00 ØØ 8Ø ØØ ØØ 8Ø ØØ ØØ F9 C760:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ EF C768:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ F7 C770:00 00 ØØ ØØ ØØ ØØ ØØ ØØ FF C778:00 00 ØØ ØØ ØØ ØØ ØØ ØØ Ø8 C780:00 00 ØØ ØØ ØØ ØØ 93 AA El C788:AA 8Ø 8Ø ØØ 8Ø 8Ø ØØ 8Ø 24 C790:80 00 8Ø 8Ø ØØ 8Ø 8Ø ØØ 7B C798:8Ø 8Ø ØØ 8Ø 8Ø ØØ 8Ø 8Ø 16 C7AØ:ØØ 8Ø 8Ø ØØ 8Ø 8Ø ØØ 8Ø **E6** C7A8:AA AA 8Ø ØØ ØØ ØØ ØØ ØØ 48 C7BØ:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 40 C7B8:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 48 C7CØ:00 00 ØØ ØØ ØØ ØØ 93 ØØ 77 C7C8:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 58 C7DØ:00 ØØ ØØ ØØ ØØ ØØ ØØ Ø8 68 C7D8:00 ØØ Ø8 ØØ ØØ Ø8 ØØ ØØ 89 8Ø C7EØ:AA ØØ Ø8. ØØ ØØ Ø8 ØØ 76 C7E8:00 Ø8 ØØ ØØ ØØ ØØ ØØ ØØ 7A C7FØ:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 8Ø C7F8:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 88 C800:00 00 00 ØØ ØØ ØØ 3Ø 2A 1 C C8Ø8:AA AA 2Ø ØØ Ø2 2Ø ØØ Ø2 3Ø C810:20 Ø2 20 ØØ ØØ Ø2 2Ø ØØ 3C C818:02 2Ø ØØ Ø2 2Ø ØØ Ø2 2Ø F7 C820:00 Ø2 2Ø ØØ Ø2 2Ø ØØ Ø2 **C8** C828:2Ø ØØ Ø2 2Ø ØØ Ø2 2Ø ØØ 54 C830:02 2Ø ØØ Ø2 2Ø ØØ Ø2 2A 1 A C838:AA AA ØØ ØØ ØØ ØØ ØØ C9 ØØ C840:00 ØØ ØØ ØØ ØØ ØØ ЗØ ØØ 32 C848:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ D9 C85Ø:ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ El C858:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ E9 C86Ø:ØØ 5Ø ØØ AA ØØ 76 AA ΑØ 76 C868:56 ΑE **A8** 16 EA BA Ø6 ΑE 44 C870:AA ØB AA E9 ØA AA 95 Ø5 39 C878:40 14 Ø1 ØØ 5Ø ØØ 40 4Ø 92 C880:00 ØØ ØØ ØØ ØØ ØØ E9 ØØ E5 C888:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 1A C890:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 22 C898:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 2A C8AØ:00 ØØ ØØ AA ØØ 52 AA ΑØ

C8A8:76	ΑE	<b>A8</b>	56	EΑ	BA	16	ΑE	В8
C8BØ:AA	ØВ	AA	E9	ØA	AA	94	Ø1	73
C8B8:40	14	ØØ	5Ø	Ø5	ØØ	1Ø	ØØ	BC
C8CØ:00	ØØ	ØØ	ØØ	ØØ	ØØ	E9	ØØ	26
C8C8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	5A
C8D0:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	62
C8D8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	6A
C8EØ:00	ØØ	ØØ	AΑ	Ø5	ØA	AA	9D	6Ø
C8E8:2A	BA	95	ΑE	AΒ	94	AA	BA	9B
C8FØ:9Ø	6B	AA	ΕØ	56	AA	ΑØ	14	BB
C8F8:01	5Ø	Ø5	ØØ	40	Ø1	Ø1	ØØ	C7
C9ØØ:ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	E9	ØØ	67
C9Ø8:ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	9B
C910:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	<b>A3</b>
C918:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	AB
C920:00	ØØ	ØØ	AA	ØØ	ØA	AA	85	61
C928:2A	BA	9 D	AE	AB	95	AA	BA	El
C93Ø:94	6B	AA	ΕØ	16	AA	ΑØ	14	FC
C938:Ø1	40	5Ø	Ø5	ØØ	ØØ	Ø4	øø	BE
C940:00	øø	ØØ	ØØ	ØØ	øø	16	øø	FF
C948:00	ØØ	øø	ØØ	ØØ	ØØ	ØØ	ØØ	DB
C950:00	øø	øø	øø	øø	øø	1ø	øø	Ø4
C958:00	74	ØØ	øø	14	ØØ	ØØ	Ø5	AE
C960:00	øø	Ø1	ØØ	ØØ	Ø1	44	40	EØ
C968:01	95	90	Ø1	59	5ø	ØØ	44	54
C970:64	ØØ	ØØ	14	ØØ	ØØ	Ø5	ØØ	81
C978:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØC
C980:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	14
C988:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	1C
C990:00								24
C998:00	ØØ	ØØ	00	ØØ ØØ	ØØ ØØ	ØØ	ØØ	24 2C
C990:00	ØØ ØØ	ØØ	ØØ ØØ		74	ØØ	ØØ	
		1Ø 55		ØØ		91	Ø1	2C
C9A8:15	56		Ø9	65	94	ØØ	11	26
C9BØ:4Ø	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	64
C9B8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	4C
C9CØ:ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	54
C9C8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	5C
C9DØ:ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	64
C9D8:04	ØØ	ØØ	1D	ØØ	ØØ	14	ØØ	68
C9E0:00	5Ø	ØØ	ØØ	40	Ø1	11	8Ø	31
C9E8:05	95	40	Ø9	59	40	15	11	Ø4
C9FØ:00	24	ØØ	ØØ	5Ø	ØØ	ØØ	ØØ	10
C9F8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	8C
CAØØ:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	95
CAØ8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	9D
CA10:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	<b>A</b> 5
CA18:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	AD
CA20:00	ØØ	ØØ	ØØ	Ø4	40	45	1 D	7E
CA28:65	65	54	16	56	40	Ø1	44	AF
CA30:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	C5

CA38:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ CD CA40:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ D5 CA48:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ DD CA5Ø:00 ØØ ØØ ØØ ØØ ØØ 14 ØØ ØE CA58:00 5D ØØ ØØ 25 ØØ ØØ Ø5 73 CA60:00 ØØ Ø5 40 ØØ Ø5 44 40 77 5Ø Ø2 56 5Ø CA68:01 55 Ø5 65 61 CA70:54 Ø5 55 95 Øl 55 5Ø Øl 74 CA78:40 5Ø ØØ 5Ø 14 ØØ ØØ ØØ E7 ØØ CA80:00 ØØ ØØ ØØ ØØ FF ØØ 16 CA88:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 1E CA90:00 ØØ ØØ ØØ 14 ØØ 5D ØØ 22 25 CA98:00 ØØ Ø5 ØØ ØØ ØØ Ø5 Α4 CAAØ:00 00 Ø5 4Ø ØØ Ø1 44 40 **A7** CAA8:01 55 5Ø Ø2 56 54 Ø5 65 Bl CABØ:55 Ø5 55 Ø1 55 9Ø 5Ø Ø1 E4 5Ø CAB8:01 40 Ø1 Ø1 4Ø ØØ 40 El CACØ:00 ØØ ØØ ØØ ØØ ØØ FF ØØ 56 CAC8:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 5E CADØ:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 66 CAD8:14 ØØ ØØ 75 ØØ ØØ 58 ØØ 80 ØØ CAEØ:00 5Ø Øl 5Ø Ø1 11 5Ø 93 CAE8:05 55 40 Ø5 95 8Ø 15 59 ΕØ CAFØ:50 56 55 5Ø Ø5 55 40 Ø5 F6 CAF8:01 40 14 Ø5 ØØ ØØ ØØ ØØ F1CBØØ:ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ 97 CBØ8:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 9F CB10:00 ØØ ØØ ØØ ØØ 14 ØØ ØØ F7 CB18:75 ØØ ØØ 58 ØØ ØØ 5Ø ØØ 9Ø CB20:00 5Ø ØØ Øl 5Ø Øl 11 40 C4 CB28:05 55 4Ø 15 95 8Ø 55 59 **A3** CB30:50 Ø6 55 5Ø Ø5 55 40 Ø1 2Ø CB38:40 4Ø Ø1 40 40 Ø5 Ø1 ØØ 3C CB4Ø:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ D7 CB48:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ DF CB50:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ E7 CB58:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ EF CB60:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ F7 CB68:00 ØØ ØØ ØØ ØØ ØØ 40 ØØ 8Ø CB7Ø:00 5Ø ØØ 51 ØØ 1Ø ØØ 55 3C CB78:54 ØØ 59 64 ØØ 55 55 ØØ AB 59 CB8Ø:56 ØØ 55 54 ØØ 7D ØØ 8C CB88:00 ØØ ØØ ØØ ØØ ØØ 2A AØ 15 CB90:00 ØØ ØØ ØØ ØØ ØØ FF FF 28 CB98:FF ØØ AA **A5** ØF FF FF ØØ 58 CBAØ:00 5Ø 2A 81 40 Ø1 11 5Ø 22 CBA8:05 5A AØ 3F FF FØ 15 59 F9 CBBØ:50 56 AA AA Ø5 55 40 FF Ø4 CBB8:FF 40 14 Ø5 ØØ AA 28 ØØ 2E CBCØ:00 00 00 00 00 00 00 58

### Program 3 **Campaign Manager**

Before beginning to enter Campaign Manager, you must have a copy of MLX on tape or disk.

Load MLX and answer the starting and ending address prompts with

Starting address: 0801 Ending address: 2530

and begin typing. The program uses about 10K, which was crunched down to about 7K to make typing it in a little easier. Since it's such a long program, you may want to enter it in parts.

When you've finished typing Campaign Manager, make sure to save it to tape or disk (maybe with a couple of backup copies as well).

Campaign Manager

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
Ø8Ø1:ØB Ø8 ØA ØØ 9E 32 3Ø
Ø8Ø9:31 ØØ ØØ ØØ 2Ø 6E ØC 2Ø A4
Ø811:F1 ØC 2Ø 7A 11
                    2Ø 6C 1F C9
Ø819:45 FA CC CC CC CC DC CØ Ø5
Ø821:ØØ ØØ ØØ Ø5 E5
                    FF A7 FF FF
Ø829:FF FF FF B2 1E 8Ø ØØ ØØ 57
                    FF FF FF
Ø831:DB 5F FA 1F FF
                     25 FF FF EØ
Ø839:8F 2D ØØ Ø4 F5
Ø841:1F FF FF FF Fl
                    C5 FA 4C
Ø849:FF F8 5F 5F FF FF FF
                              79
Ø851:8F BF AF F5 FF
                     73 25 F5
                              7C
                    FE FA F7
Ø859:FF FF FF FC CC
Ø861:23 4C 2Ø ØF F7
                     FF FF FF
Ø869:FF FA FE A2 FA 2F
                        12 ØØ
                              FA
                    FF 5C FC
Ø871:5F 15 FF FF E3
                             4 B
Ø879:CC 3C CC ØØ ØØ
                    7F AF FF F5
                     3C CF BØ
Ø881:FF FF FA FF CC
                              98
Ø889:00 Ø1 F2 FF FF BF FF EF
                              27
Ø891:AF FA F7 EØ ØØ
                    ØØ ØØ Ø1
                              46
        7F FF
              FF F2
                     FF
                        FF
                           FØ
                              AB
Ø899:33
Ø8Al:ØØ ØØ 4F AØ 8Ø
                     ØØ
                       77
                          FF 98
           23 7F ØØ
                     ØØ ØD FF
                              40
Ø8A9:2F E1
Ø8B1:ØØ 6Ø ØØ Ø7 BØ
                     øø øø
                           ØØ
```

Ø8B9:7E ØØ ØØ D3 3A ØØ 70 ØØ Ø1 FA Ø8C1:Ø2 ØØ ØØ ØØ 10 D<sub>6</sub> ØØ Ø8C9:ØØ ΑØ ØØ ØØ ØØ ØØ ØØ Ø2 Ø8 D1: ØØ Ø1 2Ø ØØ ØØ ØØ ØØ ØØ 26 2Ø 29 Ø8D9:2Ø E3 Ø8 Ø9 2Ø 4E Fl ØE DC 29 Ø8E1:Ø9 6Ø AD FE 8D 3C Ø8E9:ØE DC A5 Ø1 29 FB 85 Ø1 42 Ø8F1:A9 D1 85 FC Α9 39 85 FE Ø8 Ø8F9:AØ ØØ 84 FB 84 FD **B1** FΒ 26 F9 C6 FC C6 25 0901:91 FD 88 DØ Ø9Ø9:FE Α9 37 C5 FE DØ EF **A5** Ø9 Ø911:Ø1 Ø9 Ø4 85 Ø1 AD ØΕ DC 76 Ø1 8D ØE DC AD 18 21 Ø919:Ø9 DØ Ø921:29 FØ Ø9 ØE 8D 18 DØ 6Ø D4 Ø929:A9 39 85 FC 85 FE **A9** 5Ø AA Ø931:85 FB A9 85 20 DØ FD 44 EF Ø939:Ø9 Α9 18 85 FB Α9 D8 85 53 Ø941:FD C6 FE ΑØ 27 B1 FB 91 77 Ø949:FD 88 F9 6Ø Α9 FF 8D 55 1Ø Ø951:Ø3 38 A9 FØ 8D Ø2 38 A9 C5 Ø959:ØF 38 A2 ØØ 8D Ø1 8E ØØ 2C Ø961:38 FB 2Ø 75 Ø9 8A 86 8A CC Ø969:2Ø 72 Ø9 **E8** ΕØ 1Ø DØ F3 **B4** 29 **A8** Ø971:6Ø EA 4A 4A Ø3 **B9** BC 38 ΑØ Ø3 91 FB 88 **7B** Ø979:ØØ 10 Ø981:FB E6 FB **E6** FB E6 FB E6 93 85 ØØ Ø989:FB 6Ø A9 36 FC A9 BD FB A8 ΕØ BC Ø1 Cl Ø991:85 AA DØ Ø999:6Ø BD 19 Ø8 48 4A 38 6A 35 2Ø Ø9 Ø9Al:4A 4A 91 FB В5 68 AF 20 Ø9A9:29 ØF Ø9 2Ø 91 FB **B5** Α9 Ø9B1:Ø9 **E8** DØ ΕØ C9 2Ø DØ Ø4 1F Ø9B9:Ø9 CØ 91 FΒ C8 CØ 19 FØ DE 91 **A8** Ø9C1:Ø1 6Ø **A9** ØØ FB 18 87 Ø9C9:A9 1 A 65 FB85 FB 9Ø Ø2 E2 Ø2 ØE Ø9 D1: E6 FC 6Ø ØC Ø1 ØЗ 89 Ø9 D9:AØ Ø4 В9 **D4** Ø9 99 2Ø DØ 81 4Ø 34 Ø9E1:88 1Ø F7 AD 11 DØ Ø9 Ø9E9:8D 11 DØ 6Ø 2Ø F7 Ø9 2Ø 3A ØA Ø9F1:6E ØA 2Ø В9 6Ø A9 93 16 Ø9F9:2Ø D2 FF ΑØ 2Ø 57 ØA 2C Ø3 ØAØ1:A9 9Ø 2Ø D2  $\mathbf{F}\mathbf{F}$ A9 AB 20 5D ØAØ9:D2 FF Α9 **A3** 2Ø 65 ØA A9 4A Ø3 FØ ØA11:A7 20 D2 FF A2 ØF ΑØ ØA19:20 52 ØA A9 AA 2Ø D2 FF 29 ØA21:A9 9A D2 FF 2Ø A9 ΑØ 2Ø E9 D2 FF A9 ØA29:65 ØA A9 9Ø 2Ø **A6** ØA31:A5 2Ø D2 FFCA DØ DF ΑØ 74 ØA39:03 2Ø 52 ØA A9 ΑE 2Ø D2 DC ØA41:FF A9 AC 2Ø 65 ØA A9 AD AB GA49:2Ø D2 FF A9 92 2Ø D2 2Ø ØA51:6Ø A9 ØD 2Ø D2 FF A9 AD FFØA59:2Ø D2 88 DØ FA Α9 12 92 ΑØ 19 2Ø D2 BC ØA61:2Ø D2 FF 6Ø ØA69:FF 88 DØ FA 6Ø A9 Ø4 85 ΑØ ØA71:FE A9 2C 85 FD Α9 36 85 D<sub>5</sub> FD ØA79:FC A9 ØØ 85 FB A9 ØØ **A8** ØA81:A2 ØF Bl FΒ DØ Ø7 2Ø AØ 24 ØA89:ØA CA DØ F6 6Ø 91 FD **C8** EC CØ 37 68 FØ 29 3F AA BD ØA91:DØ ØA99:29 CØ 11 F7 91 F7 6Ø 18 59 1A 65 FB 85 FB 90 02 BC ØAA1:A9 65 FD FF ØAA9:E6 FC A9 28 18 85 6Ø 72 ØAB1:FD 9Ø Ø2 **E6** FE ΑØ ØØ ØF 85 F9 Α9 **D8** 85 FE 71 ØAB9:A9 FD 85 F7 A9 Ø4 **A9** ØAC1:A9 2C 85 ØAC9:85 F8 A9 22 85 FC A9 AD 57 Bl FB C9 ØØ 4E ØAD1:85 FB AØ 18 3F AA BD 5B ØAD9:FØ 2B 85 Ø2 29 ØAE1:CØ 37 29 ØF 91 FD A9 CØ D2 ØAE9:24 Ø2 FØ 19 78 D5 30 Ø8 BD 5Ø 9C ØAF1:22 2Ø 93 ØA DØ ØF Ø7 ØAF9:A9 CØ 2Ø 9B ØA DØ Ø6 BD 2E 93 ØA EA 88 1Ø **B6** ØBØ1:79 22 2Ø ØBØ9:CB A9 19 18 65 FB85 FB 36 FC C6 F9 DØ Ø1 5D ØB11:9Ø Ø2 E6 F7 28 18 65 F7 85 5E ØB19:6Ø A9 ØB21:9Ø Ø2 E6 F8 A9 28 18 65 EF 9Ø A5 E6 FE DØ FF FD ØB29:FD 85 DØ 48 65 **A2** 4A 3A ØB31:A1 AD 12 4A 8D ØB39:4A 4A A8 68 E5 A2 7E 24 DØ 6Ø 1F 43 F8 ØB41:20 DØ 8C 49 47 4E 2Ø 95 ØB49:41 4D 5Ø 41 41 4E 41 47 45 52 ØD 3D ØB51:4D 36 18 2Ø FØ ØB59:00 A2 12 ΑØ Ø8 ØB61:FF A2 ØØ 47 ØB FØ Ø6 4 A BD E8 DØ F5 ΑØ Ø5 77 ØB69:2Ø D2 FF 86 Ø2 A9 12 2Ø Bl ØB71:A9 Ø1 8D ØB79:D2 FF A2 28 AD 86 Ø2 49 **A4** 2Ø D2 5C ØB81:03 8D 86 Ø2 A9 **A3** ØB89:FF CA DØ FA 88 DØ EB A9 25 ØB91:92 4C D2 FF **A9** 92 85 FE FF ØB99:A9 ØØ 85 FD **A2** ØØ E8 EC E8 24 85 78 FØ 2F BD 89 ØBA1:89 24 ØBA9:F9 29 Ø7 85 F7 **A5** F9 4A D4 ØBB1:4A 4A 4A 29 Ø7 85 F8 AØ 3C ØBB9:02 2Ø E6 ØB A5 F7 ΑØ Ø1 B5 AØ Ø5 91 BB ØBC1:20 E6 ØB A9 FF 85 97 ØBC9:FD A9 Ø5 18 65 FD FD ØBD1:4C 9F ØB A9 ØØ AA A8 B9 A7 ØBD9:44 22 9D ØØ 78 E8 E8 C8 ØBE1:CØ 34 DØ F3 6Ø 91 FD C8 CC ØBE9:C8 91 FD6Ø Α9 91 85 F8 26 F7 ØBF1:A9 ØØ 85 E6 F7 85 FE 2E ØBF9:AA A2 ØØ BD BD 24 85 F9 6D ØCØ1:4A 4A 4A 4A 85 FA BD FØ 43 ØCØ9:24 85 FB 4A 4A 85 FC 4A 65 ØC11:4A 85 FD AØ Ø4 A2 Ø4 B5 E1 ØC19:F9 48 29 Ø3 18 69 Ø1 91 8F ØC21:F7 68 4A 4A 29 Ø3 18 69 2C ØC29:03 ØA ØA ØA 0A 11 F7 91 3D ØC31:F7 88 CA 10 E2 **E6** F7 AØ Ø5 ØC39:02 A9 ØF 31 F7 AA E8 8A 78 ØC41:ØA ØA ØA ØA 85 Ø2 8A Ø5 11 ØC49:02 91 F7 88 DØ EB E6 F7 4A ØC51:E6 F7 E6 F7 **E6** F7 **E6** FE 1B ØC59:A6 FE EØ 33 DØ 9D 6Ø A9 3B ØC61:FF 8D ØF D4 A9 8Ø 8D 12 88 ØC69:D4 8D 18 D4 6Ø A2 4Ø A9 57 ØC71:00 9D ØØ 8F 9D 4Ø 8F CA Cl ØC79:DØ F7 A9 8Ø 8D 8A Ø2 Α9 79 ØC81:08 20 D2 FF 2Ø 95 ØB 2Ø 8D ØC89:FA 1A 2Ø 6C 1B 2Ø 8Ø 17 El ØC91:2Ø 8B Ø9 20 1E 1C 2Ø D9 3B ØC99:08 20 ED ØB 2Ø D9 2Ø C6 Ø9 ØCAl:ED Ø9 A9 9E 2Ø D2 FF 2Ø 7 E ØCA9:5A ØB 2Ø 1E 14 2Ø 32 ØB 28 ØCB1:20 1A 1F AD 6B 1 F FØ F5 CE ØCB9:20 D9 09 2Ø 6Ø ØC A2 Ø4 F7 ØCCl:AØ Ø5 2Ø A3 1C 8D 15 8F 7A ØCC9:8D 23 25 A2 ΑØ Ø9 2Ø Ø7 ØCD1:A3 1C A2 ØØ AØ ØØ C9 ØØ AF ØCD9:FØ Ø7 29 Ø1 FØ Ø2 CA C8 ØCE1:88 8E ØF 8F 8C 4F 8F 2Ø 9D ØCE9:2E 11 DØ Ø3 4C 9D ØC 6Ø F8 ØCF1:A9 ØØ 8D 24 25 A9 80 85 ØCF9:F7 A9 8F 85 F8 Α9 Ø5 85 ØDØ1:02 ΑØ Ø5 **A2** ØЗ AD 1B D4 E8 ØDØ9:29 ØЗ 95 F9 CA DØ F6 A9 FB ØD11:01 25 FA 18 69 Øl 65 FB EB ØD19:65 FC 91 F7 88 E4 AØ DØ C8 ØD21:06 AD 1B D4 29 ØЗ AA CØ ØA CØ Ø9 FØ Ø6 AD 96 ØD29:08 FØ 8F ØD31:15 FØ Ø2 E8 E8 E8 8A 3F ØD39:91 F7 C8 CØ ØВ DØ **E2** AD 4E F9 ØD41:1B D4 29 3 F FØ C9 34 6E ØD49:BØ F5 91 F7 C8 AD ØF 8F 95 ØD51:91 F7 DØ Ø9 AD 1B D4 29 89 ØD59:07 ØA ØA 91 F7 20 DC 0E DB ØD61:C6 Ø2 DØ 9D AØ ØØ 8C 2D 9E ØD69:11 A9 8Ø 85 F7 A9 8F 85 E9 2D 11 C9 ВØ EC DA ØD71:F8 AD Ø5 Ø6 20 DC ØE CA DØ ØD79:AA FØ 6D ØD81:FA EE 2D 11 ΑØ Ø5 B1 F7 FF ØD89:99 ØF 8F 88 DØ F8 ΑØ Ø6 ØD91:A2 ØØ B1 F7 9D 1B 8F C8 F3 ØD99:E8 EØ Ø5 DØ F5 Bl F7 8D Ø2 ØDAL:ØC 8F 8D ØA 8F C8 B1 F7 ØDA9:8D ØD 8F 2Ø E4 2Ø EE ØE 5Ø ØDB1:ØE DØ Ø3 4C 6A ØD 2Ø 2E 22 ØDB9:11 FØ A9 A2 ØØ 86 F8 AØ A4 ØDC1:06 18 20 F0 FF AD 15 8F 68 ØDC9:CD 23 25 FØ Ø2 A2 ØC 86 8Ø ØDD1:F7 BD 9E 14 FØ Ø6 20 D2 1F F5 2Ø D2 ØDD9:FF E8 DØ Α9 3F Ø5 ØDE1:FF A6 F7 AØ ØA A9 2C 9D 9B 2Ø E4 91 ØDE9:9E 14 E8 88 DØ F9 ØDF1:FF FØ FB C9 ØD FØ 27 C9 **A8** Ø8 C9 41 9Ø  $\mathbf{EF}$ C9 F3 ØDF9:20 FØ ØEØ1:5B BØ EB E6 F8 **A6** F8 EØ 18 ØEØ9:ØB FØ 13 A4 F7 99 9E 14 ØB ØE11:29 3F 9D Ø5 Ø4 **E6** F7 A9 EA ØE19:2F 9D Ø6 Ø4 DØ DØ 20 26 65 ØE21:ØF 2Ø 2E 11 FØ 95 AD ØF EB ØE29:8F 29 Ø2 18 6D 1Ø 8F ØA ED ØE31:6D 12 8F 8D 16 8F AD 11 AE ØE39:8F ØA ØA 69 Ø9 38 ED 13 8F ØE41:8F 8D 17 8F AD 1B D4 29 11 ØE49:1F ØA 6D 17 8F 69 2Ø 8D 86 ØE51:08 8F AD ØF 8F 29 Ø4 6D 92 ØE59:13 8F ØA 6D 13 8F 6D 14 CØ ØE61:8F 8D 18 8F ØA 6D 12 8F 5E ØE69:69 3Ø 8D Ø9 8F AD 14 8F 73 ØE71:09 Ø8 6D 10 8F 8D 19 8F 37 ØE79:AD ØF 8F 29 Ø7 18 6D 12 3A ØE81:8F 6D 11 8F 8D 1A 8F A2 ØE89:00 AD 0C 8F E8 DD 7F 24 6D 8E ØB 8F F4 ØE91:BØ FA 8E 2Ø 8F ØE99:8E 21 8F 20 84 1B AD 15 ØEAl:8F CD 23 25 FØ Ø3 4C F1 CD ØEA9:0C AD ØF 8F 29 Ø3 8D 81 Ø4 ØEB1:8F 2Ø F3 1B A9 ØØ 8D 81 **B7** ØEB9:8F AE 21 8F BD 7F 24 A8 24 AA CA 2Ø F7 9D ØEC1:CA BD 7 F 15 8F CD 6C ØEC9:1B 2Ø 84 1B AD ØED1:23 25 DØ D5 20 FA 1A 20 81 ØED9:6C 1B 6Ø A9 1Ø 18 65 F7 3D 6Ø 2Ø ED Ø9 2Ø CD 6E ØEE1:85 F7 ØEE9:15 2Ø 26 ØF 6Ø A9 ØF 85 9B ØEF1:FD A9 16 85 FE A9 1D 85 FØ

ØEF9:A7 A2 FØ AØ 1Ø 2Ø B8 14 41 ØFØ1:AD 15 8F FØ ØD A2 ØA BD Ø1 29 3F 9D 9C Ø6 ØFØ9:75 14 CA 36 ØF11:DØ F5 AD 15 8F CD 23 25 3B ØF19:FØ Ø3 EE 7D Ø6 A2 14 AØ A9 ØF21:15 20 **A3** 1C 6Ø ΑE 15 8F 7F ØF29:BD 28 25 2Ø D2 FF A9 11 D1 19 85 ØF31:85 FD A9 FE A9 ØØ D3 ØF39:85 A7 A2 51 AØ 10 2Ø B8 AB ØF41:14 A9 1F 2Ø D2 FF Α9 14 B7 ØF49:85 FD A9 19 85 A9 Ø9 F4 FE ØF51:85 A7 A2 AB AØ 1Ø 2Ø B8 69 ØF59:14 A2 13 E8 ΑØ ØF 18 2Ø AC ØF61:FØ FF A2 31 8A 2Ø D2 FF D9 ØF69:E8 EØ 37 DØ F7 38 2Ø FØ F9 ØF71:FF EØ 18 DØ **E6** AD ØC 8F 6D ØF79:ØA AA BD DC 21 29 3F 8D 86 ØF81:AB Ø6 E8 BD DC 21 29 3F EC ØF89:8D AC Ø6 A2 12 AØ Ø2 18 B3 ØF91:20 FØ  $\mathbf{FF}$ AE 15 8F BD 28 71 ØF99:25 2Ø D2 FF AE ØD 8F 3Ø A5 2Ø D2 ØFA1:ØE AØ Ø4 BD 31 10 28 E8 88 DØ FØ ØFA9:FF F6 ØD A2 58 ØFB1:00 BD E4 1Ø FØ Ø6 2Ø D2 ØFB9:FF E8 DØ F5 A9 9E 85 F7 56 14 85 F8 ØØ ØFCl:A9 ΑØ AD 15 6F ØFC9:8F CD 23 25 FØ Ø2 ΑØ ØC B6 F7 2Ø D2 C8 ØFD1:B1 FØ Ø6 FF 5A ØFD9:DØ F6 AD 15 8F FØ 2Ø **A2** 48 ØFEL:ØA BD 75 14 29 3F 9D F8 DE ØFE9:06 CA DØ F5 Α9 14 85 FD DD Ø9 ØFF1:A9 16 85 FE Α9 85 A7 2F ØFF9:A2 D2 AØ 1Ø 2Ø B8 14 A2 El 1001:04 ΑØ ΑØ BD 1Ø 8F Ø9 ЗØ 3C 1009:99 27 Ø7 98 38 E9 28 A8 8C 1011:CA 10 F0 A2 Ø4 AØ ΑØ 98 5F 7D 1B 8F **A8** В9 1019:18 2E Ø7 9Ø 1021:09 40 99 2E Ø7 98 38 E9 EØ 1029:28 29 F8 A8 CA 10 E8 6Ø 1A 1031:53 45 4E 2Ø 47 4F 56 2Ø 5C 1039:52 45 50 20 52 45 56 20 54 1041:20 4D 53 20 44 52 3 E 20 39 3D 5Ø 2Ø 47 45 1049:56 4E 2Ø FB 1051:1B 2C 00 1B 2C ØØ  $\mathbf{F}\mathbf{F}$ 2C 49 45 4D 4F 52 1059:44 43 41 54 C5 1061:49 43 20 43 41 4E 44 49 44 2C 2C 1069:44 41 54 45 2Ø 2C 11 2C 2C ØØ FF 9C 2F 1071:2C 2Ø 29 1079:43 48 41 52 20 58 00 FF FC 1081:2F 20 53 54 41 4D 20 58 C8

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                              B4
1099:50 52
              58 ØØ FF
           2Ø
                        2F
                           2Ø
                              7E
10A1:41 50
          5Ø 4C 2Ø
                    58 ØØ ØØ A7
10A9:00 00 FF
              1F 55
                    4E 45 4D 77
           \mathbf{F}\mathbf{F}
              5Ø 4F
                     56 54 59
10B1:50 00
                              D4
1ØB9:0Ø FF 41 47 52
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                           ØØ B4
              55 43
10Cl:FF 45 44
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                        ØØ FF
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10C9:44 46 45 4E 53
                     ØØ
                        ØØ
                           ØØ
                              C5
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                     4D 45
                           ØØ
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10D9:00 FF
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1ØE9:49 44
           45 4E 54
                     20 00 FF
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1ØF9:5B 31
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           4E 56 45
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           1E 2Ø 2F
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1119:00 FF
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1121:00
        FF
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                              7 E
1129:00 00 00 00 00 AD 05 04 10
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                        C6
                           A9 9C
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                        17 BD 9C
1141:62 11
           29 3F 9D Ø4 Ø4 CA Cl
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1151:FØ F8 A2 17 68 9D Ø4 Ø4 B5
1159:CA 10 FA AD 6B 1F 29
                           1Ø 59
1161:60 3A 46 49 52
                     45 42
                           55 21
1169:54 54 4F 4E 2Ø
                     54 4F
                           2Ø AA
1171:43 4F 4E 54 49
                    4E 55
                           45 8B
1179:3A AD 23 25 CD
                    15 8F
                           DØ 8D
1181:0B EE 24 25 AD
                    24
                        25
                           C9 CD
                           2Ø F5
1189:ØA DØ Ø1 6Ø 2Ø ED Ø9
1191:CD 15 20 26 0F A9 07 8D 01
1199:00 8F 20 F4 14 A2
                        Ø5
                           AØ C8
11A1:0C 20 A3 1C AA D0
                        Ø3 4C F2
11A9:03 12 CA DØ Ø3
                     4C 93 12 BA
11B1:CA DØ Ø3 4C C5
                    12 CA DØ 6F
11B9:03 4C EF 12 CA DØ 06
                           2Ø 55
11C1:2B 1D 4C 9B 11
                     CA DØ Ø8 61
11C9:20 16 13 DØ CD
                    4C Ø3
                           12 A8
11D1:CA DØ ØE 2Ø 2E
                    11 FØ C5
                              AE
11D9:AD ØB 8F 8D 2Ø 8F 4C 8D C5
                        11 4C CC
11E1:11 CA FØ
              Ø3 4C
                     9B
11E9:C8 13 A2 ØØ A9
                     8Ø
                        18 6D 76
11F1:20 8F A8 A9 00 85
                        FD A9 73
11F9:ØE 85 FE A9
                  1E
                     85
                        A7
                           4C Al
                              5C
1201:B8 14 20 EB 11
                     AE 20 8F
1209:BD 7F 24 CA 38 FD
                        7F 24 F9
1211:48 69 Ø3 A8 A2 Ø3 2Ø A3 A3
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1219:1C C9 2Ø 2B 1D F6 ØØ DØ Ø7 1221:68 4C Ø6 12 85 Ø2 68 C5 39 4C 1229:02 BØ Ø3 9B 11 C6 Ø2 1231 : AE 2Ø 8F CA BD 7F 24 18 9F 1239:65 Ø2 ΑE ØØ 8F 9D ØØ 8F 1241:85 FB 86 FC 2Ø FA 13 A9 84 1249:1E 2Ø D2 FF **A5** FB ØA AA BA 1251:BD DC 21 2Ø D2 FF BD DD Al 1259:21 2Ø D2 FF Α9 2Ø 2Ø D2 1261:FF BD ØØ 78 48 AA Α9 ØØ BC 1269:20 CD 68 C9 BD ØA ВØ 2C Ø5 1271:A9 2Ø 2Ø D2 FF Α9 2Ø 2Ø AA 1279:D2 FF 2Ø **A9** 98 D2 FF AD BF 1281:20 8F Ø9 3Ø 2Ø D2 FF CE D8 1289:00 8F DØ Ø3 4C Ø7 14 4C CE 1291:06 12 8F AE ØØ **A9** FØ 9D **B5** 1299:00 8F 86 FC 2Ø FA 13 Α9 FE 12A1:81 2Ø D2 FF **A2** ØØ BD 7Ø E9 12A9:15 FØ Ø6 2Ø D2 FFE8 DØ 9Ø AD 2Ø 3Ø 2Ø **D2** 12B1:F5 8F Ø9 55 ØЗ 12B9:FF CE ØØ 8F DØ 4C Ø7 BC 12Cl:14 4C 9B 11 ΑE ØØ 8F Α9 C5 12C9:FF 9D ØØ 8F 86 FC 2Ø FA Bl 12D1:13 Α9 9A 2Ø D2 FF **A2** ØØ 1B 12D9:BD 7 D 15 FØ Ø6 2Ø **D2** FF 44 12E1:E8 DØ F5 CE ØØ 8F DØ ØЗ 3D 12E9:4C Ø7 14 4C 9B 11 AE ØØ BB 12F1:8F A9 ØØ 9D ØØ 8F 86 FC 6A 12F9:2Ø FA 13 **A9** 9B 2Ø **D2** FF EC 13Ø1:A9 5A A2 Ø5 2Ø D2 FF CA 4E 13Ø9:DØ FA CE ØØ 8F DØ Ø3 4C 42 1311:Ø7 14 4C 9B 11 AD Ø9 8F E3 1319:C9 ØA ВØ Ø1 6Ø Œ Ø9 8F AC 1321:20 99 21 2Ø AE 8F BD 7F Ø7 1329:24 85 F8 CA BD 7 F 24 85 48 96 F9 1331:F7 **A9** 85 A9 Ø4 85 EC 2F 1339:FA A9 85 FB 85 FC **A6** 1C 1341:F7 **E4** F8 DØ Ø3 4C 2E 11 7 F 1349:A5 F9 18 69 28 85 F9 90 36 1351:Ø2 **E6** FA BD ØØ 9Ø 85 FD B8 1359:85 A2 FE Ø4 Ø6 FE CA DØ 29 1361:FB Ø6 FE ВØ 1C A9 25 85 49 1369:FB Ø6 FE ВØ 14 A9 2Ø 85 Ø7 1371:FB Ø6 FE ВØ ØC Α9 25 85 D8 1379:FC Ø6 FE ВØ Ø4 Α9 2Ø 85 17 1381:FC ΑØ ØØ **A9** 2Ø 91 F9 C8 EC 1389:A5 FB 91 F9 C8 A5 FC 91 BB 1391:F9 **A9** 2 F 85 FΒ FC 85 Ø6 53 ВØ 1C A9 1399:FD 2A 85 FC Ø6 7Ø 13A1:FD BØ 14 A9 2Ø 85 FC Ø6 27

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                       FB AØ
                              CD
13B9:07 A5
           FB 91 F9
                    C8 A5
                           FC AØ
13C1:91 F9 E6
              F7 4C
                    3A 13
                          2Ø 1D
13C9:67 17 AE
              2Ø 8F
                    E8
                       E8 E8 1C
13D1:AØ 1F 18 2Ø FØ
                    FF A9 3A 2A
13D9:20 D2 FF A2 03
                    AØ ØD 2Ø C3
13E1:A3 1C C9 ØØ DØ
                    Ø6
                       2Ø 2B 24
13E9:1D 4C C8 13 C9
                    ØA DØ Ø3
13F1:4C 9B 11 8D 2Ø 8F 4C 9B 93
13F9:11 A9 16
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                    FC AA AØ
                              72
1401:20 18 20 F0 FF
                    6Ø 2Ø 2E 42
1409:11 DØ Ø3 4C D9
                    11 20 68 CE
1411:19 20 FA 1A 20 6C 1B 20 D7
1419:84 1B 4C 7A 11
                    A9 ØØ 85
1421:FD A9 ØA 85 FE A9 1E 85 AC
1429:A7 A2 31 AØ
                 14
                    4C B8
                          14
                             55
1431:FF 12 90 A0 D5 D3 C5 A0 24
1439:CA CF D9 BD AØ
                    ØØ FF AØ
                              77
1441:D3 D4 C9 C3 CB
                    ΑØ
                        CF D2 51
1449:AØ ØØ FF C9 CA
                    CB CC 92 10
              CB C5 D9
1451:CD 12 AØ
                       D3 ØØ
                              F2
1459:FF
       12 9B 5Ø 4C
                    5B 31
                           2Ø DØ
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                        52 41
                              1D
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                    52 45 5Ø A2
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                       4E ØØ B6
1481:FF 12 9B
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                           55
                              ØЗ
1489:4D 42 45 4E 54
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                       ØØ FF 63
1491:1F 20 20 20 4E 4F 4E 45
                              E8
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              52 2Ø
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14A9:FF 20 50 4C 41
                    59 45 52 F4
14B1:20 32 20 00 00
                        ØØ 86 Ø1
                    ØØ
14B9:FB 84 FC DØ ØB
                    C8 98 18 72
14C1:65 FB 85
              FB 90
                    Ø2 E6 FC 63
14C9:A6 FD E4 FE DØ
                    Øl
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14D1:FD A4 A7
              18 20
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                       FF AØ FD
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                    10 10 C8 CE
14E1:B1
        FB FØ D9 20
                    D2 FF CA B4
        FA FØ D1 C8
                    DØ Fl AA 2C
14E9:10
14F1:C8 DØ ED A9 ØØ
                    85 FD A9
                              C6
14F9:ØE 85
           FE
              A9 92
                     2Ø
                       D2 FF BF
15Ø1:A9 9Ø 2Ø D2 FF
                    A9
                       1E 85
1509:A7 A2 48 AØ 15
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                          14
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1511:AE 15 8F BD 25
                    25
                        29 3F
                              F4
1519:8D 47 Ø4 AD 24 25 Ø9 3Ø 2F
1521:8D 4E Ø4 AD 2Ø 8F ØA ØA 5E
1529:0A 18 6D 20 8F AA AD
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1531:8F Ø9 3Ø 8D 96 Ø4 AØ ØØ 4A
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1539:BD 25 24 29 3F FØ Ø7 99 Ø8 C8 F2 6Ø Ø9 7 E 1541:98 Ø4 **E8** DØ 2Ø 1549:3A ØØ FF 2Ø 20 57 45 Ø8 1551:45 4B 2Ø 2Ø 2Ø ØØ Ø9 3A Ø9 2Ø Ø9 20 ØØ ØØ FF 92 1559:00 7C 1561:1F 2Ø 2Ø 43 41 4 D 5Ø 41 1569:49 47 4E ØØ FF 2Ø 2Ø 54 E8 1571:56 53 2Ø 2Ø 41 44 2Ø 9D 34 1579:00 FF 2Ø 2Ø 46 55 4E 44 12 1581:52 41 49 53 ØØ FF 2Ø 2Ø E3 1589:52 45 54 2Ø 20 53 2Ø 2Ø BF 1591:00 FF 12 9B 2Ø 4D 41 5Ø CØ 1599:20 20 20 2Ø 20 20 FF ØØ 63 5Ø 15A1:2Ø 4 F 4C 4C 2Ø 2Ø 2Ø E1 15A9:20 20 00 FF92 96 52 45 C4 53 49 45 15B1:43 4F 4E 44 52 88 52 15B9:00 FF54 41 56 45 4C CD 20 20 15C1:2Ø 2Ø 9A ØØ Ø9 2Ø 11 ØØ A9 15C9:00 øø øø ØE 85 FD 82 FE 15D1:A9 19 85 A9 1 C 85 **A7** 28 15D9:A9 1E 2Ø D2 FF **A2** 22 AØ Ø1 15E1:17 2Ø В8 14 Α9 2B 8D 4C 59 15E9:06 A9 2E 8D 8C Ø7 AD 24 2Ø DØ Α9 14 A2 2Ø 3A 15F1:25 ØВ Ø8 15F9:D2 FFCA DØ FA 6Ø ΑE Ø8 B2 **A2** 16Ø1:8F Α9 ØØ 20 CD BD 17 23 1609:A0 1E 18 2Ø FØ FF **A9** 1E ØB 8F 1611:20 D2 FF ΑE Ø9 ΕØ 64 99 1619:BØ 16 Α9 2Ø 2Ø D2 FF EØ 87 2Ø D2 FF 2Ø D2 CB 1621:ØA ВØ ØD 3Ø 2Ø 1629:FF 8A Ø9 D2 FF 6Ø **C8** 1631:A9 ØØ 2Ø CD BD AD **B8** Ø7 30 1639:8D B9 Ø7 A2 Ø6 AD 1B D4 97 C9 ØA ВØ F7 3Ø 47 1641:29 ØF Ø9 1649:9D B9 Ø7 CA DØ EF Α9 3C 16 8D BC Ø7 7A E8 1651:8D B8 Ø7 2Ø 85 F8 **A9** ØØ 85 1659:16 A9 34 CD A2 Ø2 95 FC CA 1Ø 1661:F7 **A8** 6E 2Ø **A6** 16 **A9** 2Ø **A2** Ø2 1669:FB **E6** 1671:95 F9 CA 10 FB 2Ø D3 16 5F 1679:60 **A9** 11 85 FC **A9** ØØ 85 Œ FC 1681:FB **A6** FΒ E4 DØ Ø1 6Ø ВØ 1689:AØ ØØ 18 2Ø FØ FF A2 ØØ D7 28 25 2Ø D2 25 1691:BD FF **A9** 5C 1699:20 D2 FF E8 EØ Ø3 DØ FØ BE FB 4C 82 **A6** F7 16A1:E6 16 E8 16 16A9:E8 86 F7 **C8** C4 F8 DØ Ø1 24 78 4A 85 Ø2 **B9** 2B 16B1:60 BD ØØ 9Ø A2 Ø2 29 16B9:00 EΕ FØ Ø6 6B 16C1:CA 29 ØE FØ Ø1 CA B5 FC ØA

16C9:18	65	Ø2	ВØ	D8	95	FC	4C	ØA
16D1:A6	16	Α9	Ø4	85	F8	Α9	ØØ	AF
16D9:85	F7	ΑØ	Ø2	Α9	ØF	85	Ø2	91
16E1:B9	25	25	29	3 F	91	F7	88	24
16E9:10	F6	A9	28	18	65	F7	85	5F
16F1:F7	A9	ØØ	65	F8	85	F8	ΑØ	4B
16F9:Ø2	A2	Ø2	A9	1Ø	18	75	FC	73
1701:95	FC	BØ	ØD	B5	F9	91	F7	DØ
	_							
1709:CA	88	10	EF	C6	Ø2	10	DA	F8
1711:60	48	A9	25	95	F9	68	4 A	B8
1719:4A	4A	29	Ø1	Ø9	24	4C	Ø7	AC
1721:17	ØВ	23	ØØ	FF	2A	2Ø	53	3 E
1729:00	FF	2A	2Ø	4D	ØØ	$\mathbf{F}\mathbf{F}$	2A	33
1731:2Ø	54	ØØ	FF	2A	2Ø	57	ØØ	Ø5
1739:FF	2A	2Ø	54	ØØ	$\mathbf{F}\mathbf{F}$	2A	2Ø	ΑF
1741:46	ØØ	FF	2A	2Ø	53	ØØ	ØВ	8E
1749:2C	ØØ	FF	5C	2Ø	3Ø	ЗØ	3C	Bl
1751:30	3Ø	3Ø	3C	3Ø	3Ø	3Ø	ØØ	10
1759:FF	9 A	2Ø	48	45	41	4C	54	D2
1761:48	2Ø	ØØ	ØØ	ØØ	øø	A9	1C	2B
1769:20	D2	FF	A9	ØØ	85	FD	A9	B2
				1 E				FB
1771:ØF	85	FE	A9		85	A7	A2	
1779:00	AØ	8Ø	20	B8	14	60	A9	62
1781 :8Ø	85	F8	A9	ØØ	85	F7	A9	BA
1789:00	85	FA	85	F9	A9	ØØ	85	CC
1791:FD	85	FE	<b>A8</b>	A2	Ø1	2Ø	Fl	D5
1799:17	A2	ØØ	ΑØ	Ø4	BD	25	24	8B
17Al:91	F7	C8	E8	ΕØ	Ø8	DØ	F5	FC
17A9:A2	Ø8	AC	36	19	88	E6	FD	DA
17B1:A5	FD	C9	ØA	DØ	ØЗ	4C	El	19
17B9:17	A9	FF	91	F7	C8	Α9	1C	49
17C1:91	F7	C8	Α9	2A	91	F7	C8	BA
17C9:A5	FD	Ø9	3Ø	91	F7	C8	A9	16
17D1:1F	91	F7	C8	E8	BD	25	24	2C
17D9:91	F7	DØ	F7	C8	4C	AF	17	56
17E1:20	Ø2	18	A9	ØØ	A2	Ø4	91	62
17E1:20	C8	CA	DØ	FA	4C	11	18	EF
17E3:F7	Ø1	AØ	ØØ	BD	36	19	91	5Ø
				36	19	DØ	F4	EE
17F9:F7	C8	E8	EC			-		
1801:60	A2	Ø1	BD	59	19	91	F7	5Ø
18Ø9:C8	E8	EC	59	19	DØ	F4	6Ø	61
1811:A9	Ø1	85	FD	85	FE	DØ	Ø9	B9
1819:E6	FD	A5	FD	C9	ØA	DØ	Ø1	E9
1821:60	E6	F8	A9	Ø9	18	65	F9	62
1829:85	F9	A9	ØØ	65	FA	85	FA	EC
1831:20	Fl	17	<b>A6</b>	F9	ΑØ	Ø4	<b>A5</b>	3 B
1839:FD	49	3Ø	91	F7	C8	C8	BD	ØC
1841:25	24	FØ	Ø6	91	F7	E8	C8	92
1849:DØ	F5	<b>A6</b>	FD	BD	7 F	24	85	CD
1851:FA	AC	36	19	88	<b>A</b> 5	FE	ØA	65

1859:AA A9 30 85 FB 85 FC A9 41 1861:FF 91 F7 C8 Α9 1 C 91 F7 9A 97 1869:C8 A9 2A 91 F7 C8 A9 C9 ØA 9Ø **C8 A5** FE 9F 1871:91 F7 1879:07 E6 FC E9 ØA 4C 76 18 AB A5 FC 91 F7 1Ø 1881:65 FB 85 FB 91 F7 **C8 A9** 2Ø 76 1889:C8 A5 FB 1891:91 F7 **C8** Α9 97 91 F7 **C8** F7 F7 **C8 E8** BD 8F 1899:BD DC 21 91 91 **C8** CA **A9** 2Ø 1 F 21 F7 18A1:DC 18A9:91 F7 **C8 A9** ЗØ 85 FB 85 69 18B1:FC BD ØØ 78 C9 ØA 9Ø Ø7 F5 ØA 4C B5 18 65 49 FC E9 18B9:E6 18C1:FB 85 FBA5 FC 91 F7 C8 12 C8 2Ø 91 3C 18C9:A5 FB 91 F7 A9 ØØ C8 E6 4A 18D1:F7 C8 **A9** 91 F7 18D9:FE A5 FE C5 FA FØ ØЗ 4C 1 D FA 85 3A 2Ø Ø2 18 A5 18E1:56 18 7 F CA BD 24 85 69 18E9:FE **A6** FD E8 BD 7F 24 38 E5 Ø2 DC 18F1:02 A9 Ø8 E5 Ø2 85 Ø2 67 18F9:85 Ø2 F7 26 Α9 Ø9 91 **C8** A9 42 1901:30 1909:23 91 F7 C8 A9 ØØ 91 F7 25 7 F 1911:C8 C6 Ø2 3Ø 13 A9 Ø9 91 A9 C8 Α9 2Ø 91 F7 C8 58 1919:F7 C8 C6 Ø2 1Ø ED 8F 1921:00 91 F7 **C8** CA 8D 1929:A9 ØØ A2 Ø4 91 F7 23 28 FA 4C 19 18 23 Ø9 1931:DØ 2Ø 2Ø 53 FF 2Ø 20 20 2Ø 1939:00 Ø9 2C ØØ ØE 1941:20 20 20 20 00 CD Cl 12 9A 25 9ø DØ B5 1949:FF 92 ØØ C6 1951:AØ AØ AØ AØ AØ ΑØ 55 2A 1959:ØE FF 1C 2A 4D 45 4E AD 60 2Ø 2Ø ØØ ØØ 1961:20 2Ø 2Ø 1969:ØB 8F 8D 2Ø 8F A9 Ø8 8D 79 CE ØØ 8F 1971:00 8F DØ Øl 6Ø 83 DØ Ø9 8F BD ØØ 8F В9 1979:AE ØØ 1981:20 B1 1A 2Ø DØ 1A 4C 73 7Ø 1Ø 17 6A BØ Ø3 4C A6 A6 1989:19 6Ø 18 8F ØA 6D Ø9 8F 1991:1B AD 1999:90 02 A9 FF 8D Ø9 8F 4C C5 19 AC Ø9 8F FØ CB 48 1A 19A1:73 7 F 24 ВØ FA 11 19A9:A2 ØØ E8 DD 19B1:EC ØB 8F FØ Ø9 8E 2Ø 8F 70 68 2Ø 4C CE Ø9 8F 19B9:8E ØB 8F 1A E2 19C1:CF 19 2Ø E9 19 2Ø 5D 19C9:20 8C 1A 4C 73 19 85 Ø2 44 ØA ØA 99 C6 FΒ **A**5 FB 19D1:85 FB 85 FD Α9 E4 19D9:18 65 FB 85 FB 19E1:92 85 FC A9 91 85 FE6Ø F9

19E9:AD									
19F9:15 8F A8 B1 FB 85 FF AD 6E 1AØ1:ØA 8F 1Ø Ø3 E6 FF 6Ø C5 ØE 1AØ9:Ø2 DØ Ø9 A9 Ø2 2Ø 57 1A 87 1A11:A9 FF 85 Ø2 A5 Ø2 8D ØA 45 1A19:8F AD Ø8 8F AØ Ø5 4A 88 BØ 1A21:DØ FC 2Ø 57 1A AD 16 8F B9 1A29:2Ø 57 1A AØ Ø6 88 DØ Ø1 85 1A31:6Ø B9 1A 8F D1 FD DØ Ø7 6F 1A39:A9 Ø3 2Ø 57 1A DØ EE AA 19 1A41:CA 8A D1 FD DØ Ø7 A9 Ø1 8E 1A49:2Ø 57 1A DØ EØ E8 E8 8A BA 1A51:D1 FD DØ D9 FØ FØ 18 65 86 1A59:FF 85 FF 6Ø AØ Ø5 B1 FB 6D 1A61:38 E5 FF BØ Ø4 C6 FF DØ 42 1A69:F9 91 FB A5 FF AA AC 15 EE 1A71:8F C8 18 71 FB 9Ø Ø2 A9 FF 3B 1A89:91 FB 6Ø 46 FF DØ Ø1 6Ø 9B 1A91:AD Ø8 8F 38 E5 FF DØ 1A39:AD Ø8 BF 38 E5 FF DØ 36 AD BB 1A31:Ø1 6Ø AD Ø9 8F 38 E5 FF DØ 1A39:AD Ø8 BF 38 E5 FF DØ 1A39:AD Ø8 BF 38 E5 FF DØ 36 FB 1A31:AD Ø8 8F AD Ø8 BF AD Ø8 BF FF DØ 36 FB 1A31:AD Ø8 BF 38 E5 FF DØ 36 FB 1A31:AD Ø8 BF 38 E5 FF DØ 36 FB 1A31:AD Ø8 BF 38 E5 FF DØ 38 1AA1:Ø1 6Ø AD Ø9 BF 38 E5 FF DØ 36 FB 1A31:AD Ø8 BF 38 E5 FF DØ 36 FB 1A31:AD Ø8 BF 38 E5 FF DØ 38 1AA1:Ø1 6Ø AD Ø9 BF 6Ø FB DØ 9Ø 5A 1AC9:25 FB FØ F3 C8 DØ FØ A5 FD 1AD1:Ø2 18 6D 17 8F ØA 6D 16 C1 1AD9:8F 6D Ø8 BF AD Ø8 BF BØ Ø3 49 1AF1:8D Ø8 BF AD Ø8 BF BØ Ø3 49 1AF1:8D Ø8 BF AD Ø8 BF BØ Ø3 49 1AF1:8D Ø8 BF AD Ø8 BF BØ Ø3 49 1AF1:8D Ø8 BF AD Ø8 BF BØ Ø3 49 1B11:DØ Ø1 6Ø AØ BF BE EØ 34 49 FF 3C 1B9:6Ø AD Ø9 BF 6Ø AD Ø9 BF 6Ø AD BB 1B1:FB C8 95 1AF9:6Ø AP 92 B5 FC AP ØØ 8D Ø4 BF BØ 34 49 1B11:DØ Ø1 6Ø AØ AF Ø Ø7 AØ Ø5 34 1B9:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA 49 FF 3C 1B19:38 F1 FB DØ 6A EA			8F	29	F8	DØ	Ø5	Α9	38
1AØ1:ØA 8F 1Ø Ø3 E6 FF 6Ø C5 ØE 1AØ9:Ø2 DØ Ø9 A9 Ø2 2Ø 57 1A 87 1A11:A9 FF 85 Ø2 A5 Ø2 8D ØA 45 1A19:8F AD Ø8 8F AØ Ø5 4A 88 BØ 1A21:DØ FC 2Ø 57 1A AD 16 8F B9 1A29:2Ø 57 1A AØ Ø6 88 DØ Ø1 85 1A31:6Ø B9 1A 8F D1 FD DØ Ø7 6F 1A39:A9 Ø3 2Ø 57 1A DØ EE AA 19 1A41:CA 8A D1 FD DØ Ø7 A9 Ø1 8E 1A49:2Ø 57 1A DØ EØ E8 E8 8A BA 1A51:D1 FD DØ D9 FØ FØ 18 65 86 1A59:FF 85 FF 6Ø AØ Ø5 B1 FB 6D 1A61:38 E5 FF BØ Ø4 C6 FF DØ 42 1A69:F3 91 FB A5 FF AA AC 15 EE 1A71:8F C8 18 71 FB 9Ø Ø2 A9 89 1A79:FF 91 FB 88 49 Ø3 A8 8A 4D 1A81:4A 4A 71 FB 9Ø Ø2 A9 FF 3B 1A89:91 FB 6Ø 46 FF DØ Ø1 6Ø 9B 1A91:AD Ø8 8F 38 E5 FF BØ Ø2 A6 1A99:A9 ØØ 8D Ø8 8F 46 FF DØ 3B 1AA1:Ø1 6Ø AD Ø9 8F 6Ø FB 1AB1:AØ ØØ A2 ØF AD 15 8F FØ 4D 1AA9:BØ Ø2 A9 ØØ 8D Ø9 8F 6Ø FB 1AB1:AØ ØØ A2 ØF AD 15 8F FØ AD 1AA9:8F C8 BF FØ F3 C8 DØ FØ A5 FD 1AD1:Ø2 18 6D 17 8F ØA 6D 16 C1 1AD9:8F 6D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 AA FØ Ø7 AØ Ø5 34 1BØ9:E6 FB 88 DØ FB E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ 6A EA 49 FF 3C 1B29:18 69 Ø1 AØ 8Ø DØ Ø2 AØ DB 1B31:Ø8 85 FD 84 FE 29 EØ FØ 24 1B39:30 DØ 14 46 FE A5 FD 29 3F 1B41:DØ Ø2 AØ BØ Ø2 A6 FE A5 16 1B49:FF 9D ØØ Ø4 A6 FE A5 16 1B49:FF 9D ØØ Ø4 A6 FE A5 16 1B49:FF 9D ØØ Ø4 A6 FE A5 16 1B49:FØ 9Ø Ø4 A9 Ø1 D3 1B61:DØ Ø2 A9 IØ 8D Ø9 Ø9 PD E1 1B69:ØØ 9Ø 6Ø A2 34 CA FØ 1D3		85	$\mathbf{FF}$	6Ø	Α9	ØЗ	18	6D	ØЗ
1A09:02       DØ       A9       Ø2       20       57       1A       87         1A11:A9       FF       85       Ø2       A5       Ø2       8D       ØA       45         1A19:8F       AD       Ø8       8F       AØ       Ø5       4A       88       BØ         1A21:DØ       FC       20       57       1A       AD       16       8F       B9         1A31:6Ø       B9       1A       AØ       Ø6       88       DØ       Ø1       85         1A31:6Ø       B9       1A       AB       DI       FD       DØ       Ø7       A9       Ø1       8E         1A31:A9       Ø3       20       57       1A       DØ       EE       AA       19         1A41:CA       8A       D1       FD       DØ       Ø7       A9       Ø1       8E         1A41:CA       8A       D1       FD       DØ       Ø7       A9       Ø1       8E         1A41:CA       8A       D1       FD       DØ       Ø7       A9       Ø1       8E         1A41:CA       AB       AB       AB       AB       AB       AB       AB <td></td> <td>8F</td> <td><b>A8</b></td> <td>B1</td> <td>FΒ</td> <td>85</td> <td><math>\mathbf{F}\mathbf{F}</math></td> <td></td> <td>6E</td>		8F	<b>A8</b>	B1	FΒ	85	$\mathbf{F}\mathbf{F}$		6E
1 A11:A9 FF 85 Ø2 A5 Ø2 8D ØA 45 1A19:8F AD Ø8 8F AØ Ø5 4A 88 BØ 1A21:DØ FC 2Ø 57 1A AD 16 8F B9 1A29:2Ø 57 1A AØ Ø6 88 DØ Ø1 85 1A31:6Ø B9 1A 8F D1 FD DØ Ø7 6F 1A39:A9 Ø3 2Ø 57 1A DØ EE AA 19 1A41:CA 8A D1 FD DØ Ø7 A9 Ø1 8E 1A49:2Ø 57 1A DØ EØ E8 E8 8A BA 1A51:D1 FD DØ Ø7 A9 Ø1 8E 1A49:2Ø 57 1A DØ EØ E8 E8 8A BA 1A51:D1 FD DØ D9 FØ FØ 18 65 86 1A59:FF 85 FF 6Ø AØ Ø5 B1 FB 6D 1A61:38 E5 FF BØ Ø4 C6 FF DØ 42 1A69:F3 91 FB A5 FF AA AC 15 EE 1A71:8F C8 18 71 FB 9Ø Ø2 A9 89 1A79:FF 91 FB 98 49 Ø3 A8 8A 4D 1A81:4A 4A 71 FB 9Ø Ø2 A9 FF 3B 1A89:91 FB 6Ø 46 FF DØ Ø1 6Ø 9B 1A91:AD Ø8 8F 38 E5 FF BØ Ø2 A6 1A91:AD Ø8 8F 38 E5 FF DD 1AA9:BØ Ø2 A9 Ø8 BØ Ø9 8F 6Ø FB AB1:AD Ø8 AD Ø9 8F 6Ø FB DØ Ø1 AA9:BØ Ø3 A8 WA Ø1 AA1:Ø1 6Ø AD Ø9 BF 38 E5 FF DD 1AA9:BØ Ø2 A9 BØ BD Ø9 BF 6Ø FB AB1:AD Ø8 BF AD Ø8 BD Ø9 BF 6Ø FB AD 1AA9:BØ Ø2 AP BP 1AB9:Ø2 AP BØ Ø3 AB WA Ø4 Ø4 BB 1AB1:AØ ØØ A2 ØF AD 15 8F FØ 4D 1AA9:BØ Ø2 AP BØ Ø3 AB WA Ø4 Ø4 BB 1AB1:AØ ØØ A2 ØF AD 15 8F FØ 4D 1AA9:BØ Ø2 AP BØ Ø3 AB WA Ø4 Ø4 BB 1AB1:AØ ØØ A2 ØF AD 15 8F FØ 4D 1AA9:BØ Ø3 BA Ø4 Ø2 6Ø BD ØØ 9Ø 5A 1AC9:25 FB FØ F3 C8 DØ FØ A5 FD 1AD1:Ø2 18 6D 17 8F ØA 6D 16 C1 1AD9:8F 6D Ø8 8F AØ ØØ BD ØØ 8F 6Ø FB 1AE1:FF 8D Ø8 8F AØ ØØ BD Ø3 49 1AE1:FB AP ØØ AA FØ Ø7 AØ Ø5 34 1BØ9:E6 FB 88 DØ FB E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1AF9:30 AP 92 85 FC AP ØØ 85 87 1BØ1:FB AP ØØ AA FØ Ø7 AØ Ø5 34 1BØ9:E6 FB 88 DØ FB E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1B19:38 F1 FB DØ ØA EA 49 FF 3C 1B29:18 69 Ø1 AØ 8F FØ Ø7 AØ Ø5 34 1BØ9:E6 FB 88 DØ FB E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1B19:38 F1 FB DØ ØA EA 49 FF 3C 1B29:18 69 Ø1 AØ 8F FØ Ø7 AØ Ø5 34 1B99:E6 FB 88 DØ FF E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1B19:38 F1 FB DØ ØA EA 49 FF 3C 1B29:18 69 Ø1 AØ 8F FØ Ø7 AØ Ø5 34 1B99:E6 FB BØ Ø4 AA FØ Ø7 AØ Ø5 34 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1B19:38 F1 FB DØ Ø4 C0 FF A5 A3 1B51:FE 9D Ø8 DØ Ø2 46 FE A5 A6 1B49:FD 29 Ø8 DØ Ø2 46 FE A5 A6 1B49:FD 29 Ø8 DØ Ø2 46 FE A5 A6 1B49:FD 29 Ø8 DØ Ø2 46 FE A5 A6 1B49:FD 29 Ø8 DØ Ø2 46 FE A5 A6 1B49:FD 29 Ø8 DØ Ø2 46 FE A5 A6 1B49:FD	1 AØ1 :ØA	8F	10	ØЗ	E6	FF	6Ø	C5	ØE
1A19:8F   AD   Ø8   8F   AØ   Ø5   4A   88   BØ   1A21:DØ   FC   2Ø   57   1A   AD   16   8F   B9   1A29:2Ø   57   1A   AØ   Ø6   88   DØ   Ø1   85   1A31:6Ø   B9   1A   8F   D1   FD   DØ   Ø7   6F   1A39:A9   Ø3   2Ø   57   1A   DØ   EE   AA   19   1A41:CA   8A   D1   FD   DØ   Ø7   A9   Ø1   8E   1A49:2Ø   57   1A   DØ   EØ   E8   E8   BA   1A51:D1   FD   DØ   D9   FØ   FØ   18   65   66   1A59:FF   85   FF   6Ø   AØ   Ø5   B1   FB   6D   1A61:38   E5   FF   BØ   Ø4   C6   FF   DØ   42   1A69:F3   91   FB   A5   FF   AA   AC   15   EE   1A71:8F   C8   18   71   FB   9Ø   Ø2   A9   89   1A79:FF   91   FB   98   49   Ø3   A8   8A   4D   1A81:4A   4A   71   FB   9Ø   Ø2   A9   FF   3B   1A89:91   FB   6Ø   46   FF   DØ   Ø1   6Ø   9B   1A91:AD   Ø8   8F   38   E5   FF   BØ   Ø2   A6   1A99:A9   ØØ   8D   Ø8   8F   6Ø   FB   A2   34   CA   BB   1AA1:Ø1   6Ø   AD   Ø9   8F   6Ø   FB   A2   34   CA   BB   1AA1:Ø1   6Ø   AD   Ø9   8F   6Ø   FB   A2   34   CA   BB   1AA1:Ø1   6Ø   AD   Ø9   A5   FD   1AA9:BØ   Ø2   A9   Ø8   A0   A5   FD   1AA9:BØ   Ø2   A9   Ø8   A0   A5   FD   1AA9:BØ   Ø3   A8   A9   95   1AE1:FF   8D   Ø8   8F   AD   A   8F   DØ   F8   1AE1:FF   8D   Ø8   8F   AD   Ø4   8F   BØ   Ø4   A5   FD   1A19:8F   6D   Ø8   8F   AD   Ø4   AF   DØ   F8   1AE1:FF   8D   Ø8   8F   AD   Ø4   AF   FØ   A5   FD   1A19:3B   F1   FB   DØ   Ø6   A2   A9   FF   3C   1A19:3B   F1   FB   DØ   Ø6   A2   A9   FF   3C   1A19:3B   F1   FB   DØ   Ø6   A2   A9   FF   3C   1A19:3B   F1   FB   DØ   Ø6   A2   A9   FF   3C   A9   A9   A9   A9   A9   A9   A9   A	1AØ9:02	DØ	Ø9	Α9	Ø2	2Ø	57	1A	
1A19:8F   AD   Ø8   8F   AØ   Ø5   4A   88   BØ   1A21:DØ   FC   2Ø   57   1A   AD   16   8F   B9   1A29:2Ø   57   1A   AØ   Ø6   88   DØ   Ø1   85   1A31:6Ø   B9   1A   8F   D1   FD   DØ   Ø7   6F   1A39:A9   Ø3   2Ø   57   1A   DØ   EE   AA   19   1A41:CA   8A   D1   FD   DØ   Ø7   A9   Ø1   8E   1A49:2Ø   57   1A   DØ   EØ   E8   E8   BA   1A51:D1   FD   DØ   D9   FØ   FØ   18   65   66   1A59:FF   85   FF   6Ø   AØ   Ø5   B1   FB   6D   1A61:38   E5   FF   BØ   Ø4   C6   FF   DØ   42   1A69:F3   91   FB   A5   FF   AA   AC   15   EE   1A71:8F   C8   18   71   FB   9Ø   Ø2   A9   89   1A79:FF   91   FB   98   49   Ø3   A8   8A   4D   1A81:4A   4A   71   FB   9Ø   Ø2   A9   FF   3B   1A89:91   FB   6Ø   46   FF   DØ   Ø1   6Ø   9B   1A91:AD   Ø8   8F   38   E5   FF   BØ   Ø2   A6   1A99:A9   ØØ   AD   Ø9   8F   6Ø   FB   AB1:AD   Ø8   AD   Ø9   8F   6Ø   FB   AB1:AD   Ø3   84   Ø2   6Ø   BD   ØØ   9Ø   5A   1A69:BØ   Ø2   A9   Ø8   A2   34   CA   BB   AA1:Ø1   6Ø   AD   Ø9   AD   FØ   A5   FD   AD   A5   AD	1A11:A9	$\mathbf{F}\mathbf{F}$	85	Ø2	<b>A5</b>	Ø2	8D	ØA	45
1A29:20 57 1A AØ Ø6 88 DØ Ø1 85 1A31:60 B9 1A 8F D1 FD DØ Ø7 6F 1A39:A9 Ø3 2Ø 57 1A DØ EE AA 19 1A41:CA 8A D1 FD DØ Ø7 A9 Ø1 8E 1A49:20 57 1A DØ EØ E8 E8 8A BA 1A51:D1 FD DØ D9 FØ FØ 18 65 86 1A59:FF 85 FF 6Ø AØ Ø5 B1 FB 6D 1A61:38 E5 FF BØ Ø4 C6 FF DØ 42 1A69:F3 91 FB A5 FF AA AC 15 EE 1A71:8F C8 18 71 FB 9Ø Ø2 A9 89 1A79:FF 91 FB 98 49 Ø3 A8 8A 4D 1A81:4A 4A 71 FB 9Ø Ø2 A9 FF 3B 1A89:91 FB 6Ø 46 FF DØ Ø1 60 9B 1A91:AD Ø8 8F 38 E5 FF BØ Ø2 A6 1A99:A9 ØØ 8D Ø8 8F 46 FF DØ 3B 1AA1:Ø1 6Ø AD Ø9 8F 38 E5 FF DD 1AA9:BØ Ø2 A9 ØØ 8D Ø9 8F 6Ø FB 1AB1:AØ ØØ A2 ØF AD 15 8F FØ 4D 1AB9:Ø2 A2 FØ 86 FB A2 34 CA BB 1AC1:DØ Ø3 84 Ø2 6Ø BD ØØ 9Ø 5A 1AC9:25 FB FØ F3 C8 DØ FØ A5 FD 1AD1:Ø2 18 6D 17 8F ØA 6D 16 C1 1AD9:8F 6D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FB A9 ØØ AA FØ Ø7 AØ Ø5 34 1BØ9:E6 FB 88 DØ FB E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1B19:38 F1 FB DØ Ø6 2Ø 58 1B FØ 1B21:4C Ø7 1B BØ ØA EA 49 FF 3C 1B21:4C Ø7 1B BØ ØA EA 49 FF AD 1B21:4C Ø7 1B BØ ØA EA 49 FF AD 1B21:4C Ø7 1B BØ ØA EA 49 FF AD 1B21:4C Ø7 1B BØ ØA EA 49 FF AD 1B21:4C Ø7 1B BØ ØA EA 49 FF AD 1B21:4C Ø7 1B BØ ØA EA 49 FF A	1A19:8F	AD	Ø8	8F	ΑØ	Ø5	4A	88	
1A31:60       B9       1A       8F       D1       FD       D0       07       6F         1A39:A9       03       20       57       1A       D0       EE       AA       19         1A41:CA       8A       D1       FD       D0       07       A9       Ø1       8E         1A49:20       57       1A       D0       EØ       E8       E8       8A       BA         1A51:D1       FD       D0       D9       FØ       FØ       18       65       86         1A61:38       E5       FF       BØ       Ø4       C6       FF       DØ       42         1A61:38       E5       FF       BØ       Ø4       C6       FF       DØ       42         1A69:F3       91       FB       A5       FF       AA       AC       15       EE         1A79:FF       91       FB       A5       FF       AA       AC       15       EE         1A79:FF       91       FB       A5       FF       DØ       Ø2       A9       89         1A79:FF       91       FB       A5       FF       DØ       Ø2       A9       FF <td>1A21:DØ</td> <td>FC</td> <td>2Ø</td> <td>57</td> <td>1 A</td> <td>AD</td> <td>16</td> <td>8F</td> <td>В9</td>	1A21:DØ	FC	2Ø	57	1 A	AD	16	8F	В9
1A39:A9 Ø3 2Ø 57 1A DØ EE AA 19 1A41:CA 8A D1 FD DØ Ø7 A9 Ø1 8E 1A49:2Ø 57 1A DØ EØ E8 E8 8A BA 1A51:D1 FD DØ D9 FØ FØ 18 65 86 1A59:FF 85 FF 6Ø AØ Ø5 B1 FB 6D 1A61:38 E5 FF BØ Ø4 C6 FF DØ 42 1A69:F3 91 FB A5 FF AA AC 15 EE 1A71:8F C8 18 71 FB 9Ø Ø2 A9 89 1A79:FF 91 FB 98 49 Ø3 A8 8A 4D 1A81:4A 4A 71 FB 9Ø Ø2 A9 FF 3B 1A89:91 FB 6Ø 46 FF DØ Ø1 6Ø 9B 1A91:AD Ø8 8F 38 E5 FF BØ Ø2 A6 1A99:A9 ØØ 8D Ø8 8F 46 FF DØ 3B 1AA1:Ø1 6Ø AD Ø9 8F 38 E5 FF DD 1AA9:BØ Ø2 A9 ØØ 8D Ø9 8F 6Ø FB 1AB1:AØ ØØ A2 ØF AD 15 8F FØ 4D 1AB9:Ø2 A2 FØ 86 FB A2 34 CA BB 1AC1:DØ Ø3 84 Ø2 6Ø BD ØØ 9Ø 5A 1AC9:25 FB FØ F3 C8 DØ FØ A5 FD 1AD1:Ø2 18 6D 17 8F ØA 6D 16 C1 1AD9:8F 6D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 AA FØ Ø7 AØ Ø5 34 1BØ9:E6 FB 88 DØ FB E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1B19:38 F1 FB DØ Ø6 2Ø 58 1B FØ 1B21:4C Ø7 1B BØ ØA EA 49 FF 3C 1B29:18 69 Ø1 AØ 8Ø DØ Ø2 AØ DB 1B31:Ø8 85 FD 84 FE A5 FD 29 3F 1B41:10 88 5F D 84 FE A5 FD 29 3F 1B41:10 89 Ø2 DØ ØA 46 FE A5 A3 1B51:FE 9D ØØ 9Ø 4C Ø7 1B AD D9 1B59:ØØ 9Ø 29 FØ FØ Ø4 A9 Ø1 D3 1B61:DØ Ø2 A9 1Ø 8D ØØ 9Ø 9D E1 1B69:ØØ 9Ø 6Ø A2 34 CA FØ 12 BA	1A29:2Ø	57	1A	ΑØ	Ø6	88	DØ	Ø1	85
1A39:A9       Ø3       2Ø       57       1A       DØ       EE       AA       19         1A41:CA       8A       D1       FD       DØ       Ø7       A9       Ø1       8E         1A49:2Ø       57       1A       DØ       EØ       E8       E8       BA       BA         1A51:D1       FD       DØ       D9       FØ       FØ       18       65       86         1A59:FF       85       FF       6Ø       AØ       Ø5       B1       FB       6D         1A61:38       E5       FF       BØ       Ø4       C6       FF       DØ       42         1A69:F3       91       FB       A5       FF       AA       AC       15       EE         1A79:FF       91       FB       98       49       Ø3       A8       8A       4D         1A81:4A       4A       71       FB       90       Ø2       A9       FF       3B         1A81:AD       Ø8       SF       38       E5       FF       BØ       Ø2       A6         1A99:AP       Ø0       BD       Ø8       BF       A6       FF       DØ       Ø2 <td>1 A 31 : 6Ø</td> <td>В9</td> <td>1 A</td> <td>8F</td> <td>D1</td> <td>FD</td> <td>DØ</td> <td>Ø7</td> <td>6F</td>	1 A 31 : 6Ø	В9	1 A	8F	D1	FD	DØ	Ø7	6F
1A41:CA       8A       D1       FD       DØ       Ø7       A9       Ø1       8E         1A49:2Ø       57       1A       DØ       EØ       E8       E8       BA       BA         1A51:D1       FD       DØ       D9       FØ       FØ       18       65       86         1A59:FF       85       FF       6Ø       AØ       Ø5       B1       FB       6D         1A61:38       E5       FF       BØ       Ø4       C6       FF       DØ       42         1A69:F3       91       FB       A5       FF       AA       AC       15       EE         1A71:8F       C8       18       71       FB       9Ø       Ø2       A9       89         1A79:FF       91       FB       A5       FF       AA       AC       15       EE         1A71:8F       C8       18       71       FB       9Ø       Ø2       A9       89         1A79:FF       91       FB       A5       FF       DØ       Ø2       A9       BØ       Ø2       A9       FF       DØ       Ø2       A9       BØ       Ø2       A6       FB	1A39:A9	ØЗ	2Ø	57	1A	DØ	EE	AA	19
1A49:20       57       1A DØ EØ EØ E8 E8 8A BA         1A51:D1       FD DØ D9 FØ FØ 18 65 86         1A59:FF 85 FF 6Ø AØ Ø5 B1 FB 6D         1A61:38 E5 FF BØ Ø4 C6 FF DØ 42         1A69:F3 91 FB A5 FF AA AC 15 EE         1A71:8F C8 18 71 FB 9Ø Ø2 A9 89         1A79:FF 91 FB 98 49 Ø3 A8 8A 4D         1A81:4A 4A 71 FB 9Ø Ø2 A9 FF 3B         1A89:91 FB 6Ø 46 FF DØ Ø1 6Ø 9B         1A99:A9 ØØ 8D Ø8 8F 46 FF DØ 3B         1A99:A9 ØØ 8D Ø8 8F 46 FF DØ 3B         1AA1:Ø1 6Ø AD Ø9 8F 38 E5 FF DØ         1AA9:BØ Ø2 A9 ØØ 8D Ø9 8F 6Ø FB         1AB9:Ø2 A2 FØ 86 FB A2 34 CA BB         1AC1:DØ Ø3 84 Ø2 6Ø BD ØØ 9Ø 5A         1AC9:25 FB FØ F3 C8 DØ FØ A5 FD         1AD1:Ø2 18 6D 17 8F ØA 6D 16 C1         1AD9:8F 6D Ø8 8F AD ØA 8F DØ F8         1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8         1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8         1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8         1AE1:FF 8D Ø8 8F AD ØA 8F DØ         1AE1:FF 8D Ø8 AF AD ØA 8F DØ         1AE1:FB AP ØØ AA FØ         1B9:EB AF AP ØØ AF AF A	1A41:CA	8A		FD		Ø7	A9		
1A51:D1         FD         DØ         D9         FØ         FØ         18         65         86           1A59:FF         85         FF         60         AØ         Ø5         B1         FB         6D           1A61:38         E5         FF         BØ         Ø4         C6         FF         DØ         42           1A69:F3         91         FB         A5         FF         AA         AC         15         EE           1A71:8F         C8         18         71         FB         9Ø         Ø2         A9         89           1A79:FF         91         FB         98         49         Ø3         A8         8A         4D           1A81:4A         4A         71         FB         9Ø         Ø2         A9         FF         3B           1A89:91         FB         6Ø         46         FF         DØ         Ø1         6Ø         9B           1A89:491         FB         6Ø         46         FF         DØ         Ø1         6Ø         9B           1A91:A9         ØØ         AD         Ø8         AF         AB         Ø2         A6         FB         A	1A49:20		1A	DØ	ΕØ	E8			
1A59:FF         85         FF         60         A0         05         B1         FB         6D           1A61:38         E5         FF         BØ         04         C6         FF         DØ         42           1A69:F3         91         FB         A5         FF         AA         AC         15         EE           1A71:8F         C8         18         71         FB         9Ø         02         A9         89           1A79:FF         91         FB         98         49         Ø3         A8         8A         4D           1A81:4A         4A         71         FB         9Ø         Ø2         A9         FF         3B           1A89:91         FB         6Ø         46         FF         DØ         Ø1         6Ø         9B           1A99:A9         ØØ         8D         Ø8         8F         46         FF         DØ         3B           1A91:A9         ØØ         AD         Ø8         8F         46         FF         DØ         3B           1AA1:Ø1         6Ø         AD         Ø8         BF         AD         Ø1         6Ø         FB	1A51:D1		DØ	D9	FØ	FØ		65	
1 A61:38 E5 FF BØ Ø4 C6 FF DØ 42 1 A69:F3 91 FB A5 FF AA AC 15 EE 1 A71:8F C8 18 71 FB 9Ø Ø2 A9 89 1 A79:FF 91 FB 98 49 Ø3 A8 8A 4D 1 A81:4A 4A 71 FB 9Ø Ø2 A9 FF 3B 1 A89:91 FB 6Ø 46 FF DØ Ø1 6Ø 9B 1 A91:AD Ø8 8F 38 E5 FF BØ Ø2 A6 1 A99:A9 ØØ 8D Ø8 8F 46 FF DØ 3B 1 AA1:Ø1 6Ø AD Ø9 8F 38 E5 FF DD 1 AA9:BØ Ø2 A2 FØ 86 FB A2 34 CA BB 1 AC1:DØ Ø3 84 Ø2 6Ø BD ØØ 9Ø 5A 1 AC9:25 FB FØ F3 C8 DØ FØ A5 FD 1 AD1:Ø2 18 6D 17 8F ØA 6D 16 C1 1 AD9:8F 6D Ø8 8F AD ØA 8F DØ F8 1 AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1 AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1 AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1 AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1 AE1:FF AP ØØ AA FØ Ø7 AØ 85 87 1 BØ1:FB A9 ØØ AA FØ Ø7 AØ 85 87 1 BØ1:FB A9 ØØ AA FØ Ø7 AØ 85 87 1 BØ1:FB A9 ØØ AA FØ Ø7 AØ 85 87 1 BØ1:FB A9 ØØ AA FØ Ø7 AØ Ø5 34 1 BØ2:E6 FB 88 DØ FB E8 EØ 34 49 1 B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1 B19:38 F1 FB DØ Ø6 2Ø 58 1B FØ 1 B29:18 69 Ø1 AØ 8Ø DØ Ø2 AØ DB 1 B31:Ø8 85 FD 84 FE 29 EØ FØ 24 1 B39:Ø2 DØ 14 46 FE A5 FD 29 3F 1 B41:10 FØ Ø2 DØ ØA 46 FE A5 A3 1 B51:FE 9D ØØ 9Ø 4C Ø7 1 B AD D9 1 B59:ØØ 9Ø 29 FØ FØ Ø4 A9 Ø1 D3 1 B61:DØ Ø2 A9 10 8D ØØ 9Ø 9D E1 1 B69:ØØ 9Ø 6Ø A2 34 CA FØ 12 BA									
1A69:F3 91 FB A5 FF AA AC 15 EE 1A71:8F C8 18 71 FB 90 02 A9 89 1A79:FF 91 FB 98 49 03 A8 8A 4D 1A81:4A 4A 71 FB 90 02 A9 FF 3B 1A89:91 FB 60 46 FF D0 01 60 9B 1A91:AD 08 8F 38 E5 FF B0 02 A6 1A99:A9 00 8D 08 8F 46 FF D0 3B 1AA1:01 60 AD 09 8F 38 E5 FF DD 1AA9:B0 02 A9 00 8D 09 8F 60 FB 1AB1:A0 00 A2 0F AD 15 8F F0 4D 1AB9:02 A2 F0 86 FB A2 34 CA BB 1AC1:D0 03 84 02 60 BD 00 90 5A 1AC9:25 FB F0 F3 C8 D0 F0 A5 FD 1AD1:02 18 6D 17 8F 0A 6D 16 C1 1AD9:8F 6D 08 8F AD 0A 8F D0 F8 1AE1:FF 8D 08 8F AD 0A 8F D0 F8 1AE1:FF 8D 08 8F AD 0A 8F D0 F8 1AE1:FF 8D 08 8F AD 0A 8F D0 F8 1AF9:60 A9 92 85 FC A9 00 85 87 1B01:FB A9 00 AA F0 07 A0 05 34 1B09:E6 FB 88 D0 FB E8 E0 34 49 1B11:D0 01 60 A0 01 B1 FB C8 95 1B19:38 F1 FB D0 06 20 58 1B F0 1B21:4C 07 1B B0 0A EA 49 FF 3C 1B29:18 69 01 A0 80 D0 02 A0 DB 1B31:08 85 FD 84 FE 29 E0 F0 24 1B39:02 D0 14 46 FE A5 FD 29 3F 1B41:10 F0 02 D0 0A 46 FE A5 A3 1B51:FE 9D 00 90 4C 07 1B AD D9 1B59:00 90 29 F0 F0 04 A9 01 D3 1B61:D0 02 A9 10 8D 00 90 9D E1 1B69:00 90 60 A2 34 CA F0 12 BA									
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1A79:FF 91 FB 98 49 Ø3 A8 8A 4D 1A81:4A 4A 71 FB 9Ø Ø2 A9 FF 3B 1A89:91 FB 6Ø 46 FF DØ Ø1 6Ø 9B 1A91:AD Ø8 8F 38 E5 FF BØ Ø2 A6 1A99:A9 ØØ 8D Ø8 8F 46 FF DØ 3B 1AA1:Ø1 6Ø AD Ø9 8F 38 E5 FF DD 1AA9:BØ Ø2 A9 ØØ 8D Ø9 8F 6Ø FB 1AB1:AØ ØØ A2 ØF AD 15 8F FØ 4D 1AB9:Ø2 A2 FØ 86 FB A2 34 CA BB 1AC1:DØ Ø3 84 Ø2 6Ø BD ØØ 9Ø 5A 1AC9:25 FB FØ F3 C8 DØ FØ A5 FD 1AD1:Ø2 18 6D 17 8F ØA 6D 16 C1 1AD9:8F 6D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE9:ØA A9 1Ø 6D Ø8 8F BØ Ø3 49 1AF1:8D Ø8 8F A9 ØØ 8D ØA 8F 55 1AF9:6Ø A9 92 85 FC A9 ØØ 85 87 1BØ1:FB A9 ØØ AA FØ Ø7 AØ Ø5 34 1BØ9:E6 FB 88 DØ FB E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1B19:38 F1 FB DØ Ø6 2Ø 58 1B FØ 1B21:4C Ø7 1B BØ ØA EA 49 FF 3C 1B29:18 69 Ø1 AØ 8Ø DØ Ø2 AØ DB 1B31:Ø8 85 FD 84 FE 29 EØ FØ 24 1B39:Ø2 DØ 14 46 FE A5 FD 29 3F 1B41:1Ø FØ Ø2 DØ ØA 46 FE A5 A3 1B51:FE 9D ØØ 9Ø 4C Ø7 1B AD D9 1B59:ØØ 9Ø 29 FØ FØ Ø4 A9 Ø1 D3 1B61:DØ Ø2 A9 1Ø 8D ØØ 9Ø 9D E1 1B69:ØØ 9Ø 6Ø A2 34 CA FØ 12 BA									
1A81:4A       4A       71       FB       90       02       A9       FF       3B         1A89:91       FB       60       46       FF       DØ       01       60       9B         1A91:AD       Ø8       8F       38       E5       FF       BØ       02       A6         1A99:A9       ØØ       8D       Ø8       8F       46       FF       DØ       3B         1AA1:Ø1       6Ø       AD       Ø9       8F       38       E5       FF       DD         1AA9:BØ       Ø2       A9       ØØ       8D       Ø9       8F       6Ø       FB         1AB1:AØ       ØØ       A2       ØF       AD       15       8F       FØ       4D         1AB9:Ø2       A2       FØ       86       FB       A2       34       CA       BB         1AC1:DØ       Ø3       84       Ø2       6Ø       BD       ØØ       9Ø       5A         1AC9:25       FB       FØ       F3       C8       DØ       FØ       A5       FD         1AD9:3F       6D       Ø8       8F       ØØ       Ø3       18       A9       9Ø <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1A89:91 FB 60 46 FF D0 01 60 9B 1A91:AD 08 8F 38 E5 FF B0 02 A6 1A99:A9 00 8D 08 8F 46 FF D0 3B 1AA1:01 60 AD 09 8F 38 E5 FF DD 1AA9:B0 02 A9 00 8D 09 8F 60 FB 1AB1:A0 00 A2 0F AD 15 8F F0 4D 1AB9:02 A2 F0 86 FB A2 34 CA BB 1AC1:D0 03 84 02 60 BD 00 90 5A 1AC9:25 FB F0 F3 C8 D0 F0 A5 FD 1AD1:02 18 6D 17 8F 0A 6D 16 C1 1AD9:8F 6D 08 8F 90 03 18 A9 95 1AE1:FF 8D 08 8F AD 0A 8F D0 F8 1AE9:0A A9 10 6D 08 8F B0 03 49 1AF1:8D 08 8F A9 00 8D 0A 8F 55 1AF9:60 A9 92 85 FC A9 00 85 87 1B01:FB A9 00 AA F0 07 A0 05 34 1B09:E6 FB 88 D0 FB E8 E0 34 49 1B11:D0 01 60 A0 01 B1 FB C8 95 1B19:38 F1 FB D0 06 20 58 1B F0 1B21:4C 07 1B B0 0A EA 49 FF 3C 1B29:18 69 01 A0 80 D0 02 A0 DB 1B31:08 85 FD 84 FE 29 E0 F0 24 1B39:02 D0 14 46 FE A5 FD 29 3F 1B41:10 F0 02 D0 0A 46 FE A5 A3 1B51:FE 9D 00 90 4C 07 1B AD D9 1B59:00 90 29 F0 F0 04 A9 01 D3 1B61:D0 02 A9 10 8D 00 90 9D E1 1B69:00 90 60 A2 34 CA F0 12 BA									
1 A91:AD       Ø8       8F       38       E5       FF       BØ       Ø2       A6         1 A99:A9       ØØ       8D       Ø8       8F       46       FF       DØ       3B         1 AA1:Ø1       6Ø       AD       Ø9       8F       38       E5       FF       DD         1 AA9:BØ       Ø2       A9       ØØ       8D       Ø9       8F       6Ø       FB         1 AB1:AØ       ØØ       A2       ØF       AD       15       8F       FØ       4D         1 AB9:Ø2       A2       FØ       86       FB       A2       34       CA       BB         1 AC1:DØ       Ø3       84       Ø2       6Ø       BD       ØØ       9Ø       5A         1 AC9:25       FB       FØ       F3       C8       DØ       FØ       A5       FD         1 AD1:Ø2       18       6D       17       8F       ØA       6D       16       C1         1 AD9:8F       6D       Ø8       8F       AD       ØA       8F       DØ       F8         1 AE1:FF       8D       Ø8       8F       AD       ØA       8F       DØ									
1A99:A9 ØØ 8D Ø8 8F 46 FF DØ 3B 1AA1:Ø1 6Ø AD Ø9 8F 38 E5 FF DD 1AA9:BØ ØZ A9 ØØ 8D Ø9 8F 6Ø FB 1AB1:AØ ØØ AZ ØF AD 15 8F FØ 4D 1AB9:ØZ AZ FØ 86 FB AZ 34 CA BB 1AC1:DØ Ø3 84 ØZ 6Ø BD ØØ 9Ø 5A 1AC9:Z5 FB FØ F3 C8 DØ FØ A5 FD 1AD1:ØZ 18 6D 17 8F ØA 6D 16 C1 1AD9:8F 6D Ø8 8F 9Ø Ø3 18 A9 95 1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8 1AE9:ØA A9 1Ø 6D Ø8 8F BØ Ø3 49 1AF1:8D Ø8 8F A9 ØØ 8D ØA 8F 55 1AF9:6Ø A9 9Z 85 FC A9 ØØ 85 87 1BØ1:FB A9 ØØ AA FØ Ø7 AØ Ø5 34 1BØ9:E6 FB 88 DØ FB E8 EØ 34 49 1B11:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95 1B19:38 F1 FB DØ Ø6 2Ø 58 1B FØ 1B21:4C Ø7 1B BØ ØA EA 49 FF 3C 1B29:18 69 Ø1 AØ 8Ø DØ ØZ AØ DB 1B31:Ø8 85 FD 84 FE 29 EØ FØ Z4 1B39:ØZ DØ 14 46 FE A5 FD 29 3F 1B41:1Ø FØ ØZ DØ ØA 46 FE A5 16 1B49:FD 29 Ø8 DØ ØZ 46 FE A5 A3 1B51:FE 9D ØØ 9Ø 4C Ø7 1B AD D9 1B59:ØØ 9Ø 29 FØ FØ Ø4 A9 Ø1 D3 1B61:DØ ØZ A9 1Ø 8D ØØ 9Ø 9D E1 1B69:ØØ 9Ø 6Ø AZ 34 CA FØ 1Z BA									
1 AA1:01 60 AD 09 8F 38 E5 FF DD 1 AA9:B0 02 A9 00 8D 09 8F 60 FB 1 AB1:A0 00 A2 0F AD 15 8F F0 4D 1 AB9:02 A2 F0 86 FB A2 34 CA BB 1 AC1:D0 03 84 02 60 BD 00 90 5A 1 AC9:25 FB F0 F3 C8 D0 F0 A5 FD 1 AD1:02 18 6D 17 8F 0A 6D 16 C1 1 AD9:8F 6D 08 8F 90 03 18 A9 95 1 AE1:FF 8D 08 8F AD 0A 8F D0 F8 1 AE9:0A A9 10 6D 08 8F B0 03 49 1 AF1:8D 08 8F A9 00 8D 0A 8F 55 1 AF9:60 A9 92 85 FC A9 00 85 87 1 B01:FB A9 00 AA F0 07 A0 05 34 1 B09:E6 FB 88 D0 FB E8 E0 34 49 1 B11:D0 01 60 A0 01 B1 FB C8 95 1 B19:38 F1 FB D0 06 20 58 1 B F0 1 B21:4C 07 1 B B0 0A EA 49 FF 3C 1 B29:18 69 01 A0 80 D0 02 A0 DB 1 B31:08 85 FD 84 FE 29 E0 F0 24 1 B39:02 D0 14 46 FE A5 FD 29 3F 1 B41:10 F0 02 D0 0A 46 FE A5 16 1 B49:FD 29 08 D0 02 46 FE A5 A3 1 B51:FE 9D 00 90 4C 07 1 B AD D9 1 B59:00 90 29 F0 F0 04 A9 01 D3 1 B61:D0 02 A9 10 8D 00 90 9D E1 1 B69:00 90 60 A2 34 CA F0 12 BA									
1AA9:BØ       Ø2       A9       ØØ       8D       Ø9       8F       6Ø       FB         1AB1:AØ       ØØ       A2       ØF       AD       15       8F       FØ       4D         1AB9:Ø2       A2       FØ       86       FB       A2       34       CA       BB         1AC1:DØ       Ø3       84       Ø2       6Ø       BD       ØØ       9Ø       5A         1AC9:25       FB       FØ       F3       C8       DØ       FØ       A5       FD         1AD1:Ø2       18       6D       17       8F       ØA       6D       16       C1         1AD9:8F       6D       Ø8       8F       ØØ       Ø3       18       A9       95         1AE1:FF       8D       Ø8       8F       AD       ØA       8F       DØ       F8         1AE9:ØA       A9       1Ø       6D       Ø8       8F       BØ       Ø3       49         1AF1:8D       Ø8       8F       A9       ØØ       8D       ØA       8F       55         1AF9:6Ø       A9       92       85       FC       A9       ØØ       85       87 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1 AB1: AØ       ØØ       A2       ØF       AD       15       8F       FØ       4D         1 AB9: Ø2       A2       FØ       86       FB       A2       34       CA       BB         1 AC1: DØ       Ø3       84       Ø2       60       BD       ØØ       9Ø       5A         1 AC9: 25       FB       FØ       F3       C8       DØ       FØ       A5       FD         1 AD1: Ø2       18       6D       17       8F       ØA       6D       16       C1         1 AD9: 8F       6D       Ø8       8F       9Ø       Ø3       18       A9       95         1 AE1: FF       8D       Ø8       8F       AD       ØA       8F       DØ       F8         1 AE9: ØA       A9       10       6D       Ø8       8F       BØ       Ø3       49         1 AF1: 8D       Ø8       8F       A9       ØØ       8D       ØA       8F       55         1 AF9: 6Ø       A9       92       85       FC       A9       ØØ       85       87         1 BØ9: E6       FB       88       DØ       FB       E8       EØ       34									
1AB9:02       A2 FØ       86 FB       A2 34 CA       BB         1AC1:DØ       Ø3 84 Ø2 6Ø BD ØØ 9Ø 5A         1AC9:25 FB FØ       F3 C8 DØ FØ A5 FD         1AD1:Ø2 18 6D 17 8F ØA 6D 16 C1         1AD9:8F 6D Ø8 8F 9Ø Ø3 18 A9 95         1AE1:FF 8D Ø8 8F AD ØA 8F DØ F8         1AE9:ØA A9 1Ø 6D Ø8 8F BØ Ø3 49         1AF1:8D Ø8 8F A9 ØØ 8D ØA 8F 55         1AF9:6Ø A9 92 85 FC A9 ØØ 85 87         1BØ1:FB A9 ØØ AA FØ Ø7 AØ Ø5 34         1BØ9:E6 FB 88 DØ FB E8 EØ 34 49         1B1:DØ Ø1 6Ø AØ Ø1 B1 FB C8 95         1B19:38 F1 FB DØ Ø6 2Ø 58 1B FØ         1B29:18 69 Ø1 AØ 8Ø DØ Ø2 AØ DB         1B31:Ø8 85 FD 84 FE 29 EØ FØ 24         1B39:Ø2 DØ 14 46 FE A5 FD 29 3F         1B41:1Ø FØ Ø2 DØ ØA 46 FE A5 A3         1B51:FE 9D ØØ 9Ø 4C Ø7 1B AD D9         1B59:ØØ 9Ø 29 FØ FØ Ø4 A9 Ø1 D3         1B61:DØ Ø2 A9 1Ø 8D ØØ 9Ø 9D E1         1B69:ØØ 9Ø 6Ø A2 34 CA FØ 12 BA		-							
1 AC1:DØ       Ø3       84       Ø2       6Ø       BD       ØØ       9Ø       5A         1 AC9:25       FB       FØ       F3       C8       DØ       FØ       A5       FD         1 AD1:Ø2       18       6D       17       8F       ØA       6D       16       C1         1 AD9:8F       6D       Ø8       8F       9Ø       Ø3       18       A9       95         1 AE1:FF       8D       Ø8       8F       AD       ØA       8F       DØ       F8         1 AE9:ØA       A9       1Ø       6D       Ø8       8F       BØ       Ø3       49         1 AF1:8D       Ø8       8F       A9       ØØ       8D       ØA       8F       55         1 AF9:6Ø       A9       92       85       FC       A9       ØØ       85       87         1 BØ1:FB       A9       ØØ       AA       FØ       Ø7       AØ       Ø5       34       49         1 BØ1:FB       A9       ØØ       AA       FØ       Ø7       AØ       Ø5       34       49         1 BØ1:B9:88       F1       FB       DØ       ØA       EA									
1AC9:25         FB         FØ         F3         C8         DØ         FØ         A5         FD           1AD1:02         18         6D         17         8F         ØA         6D         16         C1           1AD9:3F         6D         Ø8         8F         9Ø         Ø3         18         A9         95           1AE1:FF         8D         Ø8         8F         AD         ØA         8F         DØ         F8           1AE9:ØA         A9         1Ø         6D         Ø8         8F         BØ         Ø3         49           1AF1:8D         Ø8         8F         A9         ØØ         8D         ØA         8F         55           1AF9:6Ø         A9         92         85         FC         A9         ØØ         85         87           1BØ1:FB         A9         ØØ         AA         FØ         Ø7         AØ         Ø5         34         49           1BØ1:FB         A9         ØØ         AA         FØ         Ø7         AØ         Ø5         34         49           1B19:38         F1         FB         DØ         ØA         EA         49         FF									
1 AD1:02       18       6D       17       8F       ØA       6D       16       C1         1 AD9:8F       6D       Ø8       8F       9Ø       Ø3       18       A9       95         1 AE1:FF       8D       Ø8       8F       AD       ØA       8F       DØ       F8         1 AE9:ØA       A9       1Ø       6D       Ø8       8F       BØ       Ø3       49         1 AF1:8D       Ø8       8F       A9       ØØ       8D       ØA       8F       55         1 AF9:6Ø       A9       92       85       FC       A9       ØØ       85       87         1 BØ1:FB       A9       ØØ       AA       FØ       Ø7       AØ       Ø5       34         1 BØ9:E6       FB       88       DØ       FB       E8       EØ       34       49         1 B11:DØ       Ø1       6Ø       AØ       Ø1       B1       FB       C8       95         1 B19:38       F1       FB       DØ       Ø6       2Ø       58       1B       FØ         1 B29:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ									
1AD9:8F       6D       Ø8       8F       9Ø       Ø3       18       A9       95         1AE1:FF       8D       Ø8       8F       AD       ØA       8F       DØ       F8         1AE9:ØA       A9       1Ø       6D       Ø8       8F       BØ       Ø3       49         1AF1:8D       Ø8       8F       A9       ØØ       8D       ØA       8F       55         1AF9:6Ø       A9       92       85       FC       A9       ØØ       85       87         1BØ1:FB       A9       ØØ       AA       FØ       Ø7       AØ       Ø5       34         1BØ9:E6       FB       88       DØ       FB       E8       EØ       34       49         1B1:DØ       Ø1       6Ø       AØ       Ø1       B1       FB       C8       95         1B19:38       F1       FB       DØ       Ø6       2Ø       58       1B       FØ         1B21:4C       Ø7       1B       BØ       ØA       EA       49       FF       3C         1B29:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ       DB						-			
1 AE1:FF       8D       Ø8       8F       AD       ØA       8F       DØ       F8         1 AE9:ØA       A9       1Ø       6D       Ø8       8F       BØ       Ø3       49         1 AF1:8D       Ø8       8F       A9       ØØ       8D       ØA       8F       55         1 AF9:6Ø       A9       92       85       FC       A9       ØØ       85       87         1 BØ1:FB       A9       ØØ       AA       FØ       Ø7       AØ       Ø5       34         1 BØ9:E6       FB       88       DØ       FB       E8       EØ       34       49         1 B11:DØ       Ø1       6Ø       AØ       Ø1       B1       FB       C8       95         1 B19:38       F1       FB       DØ       Ø6       2Ø       58       1B       FØ         1 B29:18       69       Ø1       AØ       Ø0       AØ       EA       49       FF       3C         1 B29:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ       DB         1 B31:Ø8       85       FD       84       FE       29       EØ									
1AE9:ØA       A9       1Ø       6D       Ø8       8F       BØ       Ø3       49         1AF1:8D       Ø8       8F       A9       ØØ       8D       ØA       8F       55         1AF9:6Ø       A9       92       85       FC       A9       ØØ       85       87         1BØ1:FB       A9       ØØ       AA       FØ       Ø7       AØ       Ø5       34         1BØ9:E6       FB       88       DØ       FB       E8       EØ       34       49         1B11:DØ       Ø1       6Ø       AØ       Ø1       B1       FB       C8       95         1B19:38       F1       FB       DØ       Ø6       2Ø       58       1B       FØ         1B21:4C       Ø7       1B       BØ       ØA       EA       49       FF       3C         1B29:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ       DB         1B31:Ø8       85       FD       84       FE       29       EØ       FØ       24         1B39:Ø2       DØ       14       46       FE       A5       FD       29       3F <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1 AF1:8D       Ø8       8F       A9       ØØ       8D       ØA       8F       55         1 AF9:6Ø       A9       92       85       FC       A9       ØØ       85       87         1 BØ1:FB       A9       ØØ       AA       FØ       Ø7       AØ       Ø5       34         1 BØ9:E6       FB       88       DØ       FB       E8       EØ       34       49         1 B11:DØ       Ø1       6Ø       AØ       Ø1       B1       FB       C8       95         1 B19:38       F1       FB       DØ       Ø6       2Ø       58       1B       FØ         1 B21:4C       Ø7       1B       BØ       ØA       EA       49       FF       3C         1 B29:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ       DB         1 B31:Ø8       85       FD       84       FE       29       EØ       FØ       24         1 B39:Ø2       DØ       14       46       FE       A5       FD       29       3F         1 B41:1Ø       FØ       Ø2       DØ       ØA       46       FE       A5									
1AF9:60 A9 92 85 FC A9 00 85 87 1801:FB A9 00 AA F0 07 A0 05 34 1809:E6 FB 88 D0 FB E8 E0 34 49 1811:D0 01 60 A0 01 B1 FB C8 95 1819:38 F1 FB D0 06 20 58 1B F0 1821:4C 07 1B B0 0A EA 49 FF 3C 1829:18 69 01 A0 80 D0 02 A0 DB 1831:08 85 FD 84 FE 29 E0 F0 24 1839:02 D0 14 46 FE A5 FD 29 3F 1841:10 F0 02 D0 0A 46 FE A5 16 1849:FD 29 08 D0 02 46 FE A5 A3 1851:FE 9D 00 90 4C 07 1B AD D9 1859:00 90 29 F0 F0 04 A9 01 D3 1861:D0 02 A9 10 8D 00 90 9D E1 1869:00 90 60 A2 34 CA F0 12 BA						-			
18Ø1:FB       A9       ØØ       AA       FØ       Ø7       AØ       Ø5       34         18Ø9:E6       FB       88       DØ       FB       E8       EØ       34       49         1811:DØ       Ø1       6Ø       AØ       Ø1       B1       FB       C8       95         1819:38       F1       FB       DØ       Ø6       2Ø       58       1B       FØ         1821:4C       Ø7       1B       BØ       ØA       EA       49       FF       3C         1829:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ       DB         1831:Ø8       85       FD       84       FE       29       EØ       FØ       24         1839:Ø2       DØ       14       46       FE       A5       FD       29       3F         1841:1Ø       FØ       Ø2       DØ       ØA       46       FE       A5       A3         1851:FE       9D       ØØ       9Ø       4C       Ø7       1B       AD       D9         1859:ØØ       9Ø       29       FØ       FØ       Ø4       A9       Ø1       D3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1809:E6       FB       88       DØ       FB       E8       EØ       34       49         1811:DØ       Ø1       6Ø       AØ       Ø1       B1       FB       C8       95         1819:38       F1       FB       DØ       Ø6       2Ø       58       1B       FØ         1821:4C       Ø7       1B       BØ       ØA       EA       49       FF       3C         1829:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ       DB         1831:Ø8       85       FD       84       FE       29       EØ       FØ       24         1839:Ø2       DØ       14       46       FE       A5       FD       29       3F         1841:1Ø       FØ       Ø2       DØ       ØA       46       FE       A5       16         1849:FD       29       Ø8       DØ       Ø2       46       FE       A5       A3         1851:FE       9D       ØØ       9Ø       4C       Ø7       1B       AD       D9         1859:ØØ       9Ø       29       FØ       FØ       Ø4       A9       Ø1       D3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1811:DØ       Ø1       6Ø       AØ       Ø1       B1       FB       C8       95         1819:38       F1       FB       DØ       Ø6       2Ø       58       1B       FØ         1821:4C       Ø7       1B       BØ       ØA       EA       49       FF       3C         1829:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ       DB         1831:Ø8       85       FD       84       FE       29       EØ       FØ       24         1839:Ø2       DØ       14       46       FE       A5       FD       29       3F         1841:1Ø       FØ       Ø2       DØ       ØA       46       FE       A5       16         1849:FD       29       Ø8       DØ       Ø2       46       FE       A5       A3         1851:FE       9D       ØØ       9Ø       4C       Ø7       1B       AD       D9         1859:ØØ       9Ø       29       FØ       FØ       Ø4       A9       Ø1       D3         1861:DØ       Ø2       A9       1Ø       8D       ØØ       9D       9D       E1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1819:38 F1 FB DØ Ø6 2Ø 58 1B FØ 1821:4C Ø7 1B BØ ØA EA 49 FF 3C 1829:18 69 Ø1 AØ 8Ø DØ Ø2 AØ DB 1831:08 85 FD 84 FE 29 EØ FØ 24 1839:02 DØ 14 46 FE A5 FD 29 3F 1841:1Ø FØ Ø2 DØ ØA 46 FE A5 16 1849:FD 29 Ø8 DØ Ø2 46 FE A5 A3 1851:FE 9D ØØ 9Ø 4C Ø7 1B AD D9 1859:0Ø 9Ø 29 FØ FØ Ø4 A9 Ø1 D3 1861:DØ Ø2 A9 1Ø 8D ØØ 9Ø 9D E1 1869:0Ø 9Ø 6Ø A2 34 CA FØ 12 BA									
1821:4C       Ø7       18       BØ       ØA       EA       49       FF       3C         1829:18       69       Ø1       AØ       8Ø       DØ       Ø2       AØ       DB         1831:Ø8       85       FD       84       FE       29       EØ       FØ       24         1839:Ø2       DØ       14       46       FE       A5       FD       29       3F         1841:1Ø       FØ       Ø2       DØ       ØA       46       FE       A5       16         1849:FD       29       Ø8       DØ       Ø2       46       FE       A5       A3         1851:FE       9D       ØØ       9Ø       4C       Ø7       1B       AD       D9         1859:ØØ       9Ø       29       FØ       FØ       Ø4       A9       Ø1       D3         1861:DØ       Ø2       A9       1Ø       8D       ØØ       9Ø       9D       E1         1869:ØØ       9Ø       6Ø       A2       34       CA       FØ       12       BA									
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1B69:00 90 60 A2 34 CA F0 12 BA									
1B/1:BD 00 90 29 0F F0 04 A9 19									
	TR\T:BD	שש	90	29	ØF	FØ	Ø4	A9	19

1B79:43 DØ Ø2 A9 82 9D CØ 37 A3 1B81:DØ EB 60 AD 15 8F 48 A2 1C 1B89:3F BD 4Ø 8F 9D 8Ø 8F BD 9B 1B91:00 8F 9D 40 8F BD 8Ø 8F 67 1B99:9D ØØ 8F CA DØ EB 68 49 1BA1:01 8D 15 8F 60 AD Ø9 8F B2 1BA9:C9 28 9Ø 43 AE 2Ø 8F BD E7 **7**F 24 81 24 85 FA CA BD 1BB1:7F 1BB9:85 F9 **C6** F9 AD 24 25 ØA FB 1BC1:18 6D 19 8F 85 FF E6 F9 6F F9 C5 FA FØ ØE 2Ø 17 1BC9:A5 1BD1:1C 46 FF 20 5D 1A 2Ø 8C C9 38 1BD9:1A 4C BD 1B AD Ø9 8F 82 1 BE1 : ED 19 8F 9Ø Ø5 ED 19 8F F1 1BE9:BØ Ø2 A9 Øl 8D Ø9 8F 4C 3A 19 A2 ØØ 34 86 F9 59 1BF1:73 ΑØ 1BF9:84 FA E6 F9 A5 F9 C5 FA 49 1CØ1:FØ 13 AE 81 8F 86 FF 2Ø 1B 1C 2Ø 2C 1A FF 2Ø A4 1CØ9:17 46 1C11:5D 1A 4C FB 1B 6Ø 2Ø CF 32 1C19:19 2Ø 26 1A 6Ø **A2** ØØ A9 83 1C21:00 9D 00 3F CA DØ FA A9 ED 1C29:00 AA A8 B9 0A 1F 9D ØØ C4 1C31:3F В9 12 1 F 9D 4Ø 3F E8 Ø1 1C39:E8 E8 **C8** CØ Ø7 DØ EC B9 54 1C41:0A 1F 9D ØØ 3F 9D Ø1 3F AB 1C49:9D Ø2 3F В9 12 1F 9D 4Ø DC 1C51:3F A9 FC 8D F8 Ø7 Α9 FD 41 1C59:8D F9 Ø7 A2 Ø7 A9 ØC 9D 76 1C61:27 DØ CA 1Ø FA A9 Ø1 8D C9 1Ø 1C69:1D DØ A9 Ø1 8D DØ A9 A1 8D ØØ DØ A9 32 8D Ø1 4E 1C71:04 1C79:DØ A9 36 8D Ø2 DØ A9 38 Ø3 1C81:8D Ø3 DØ A9 ØØ AØ Ø4 99 1A 1F 88 10 FA A9 22 8D EC 1C89:02 1C91:07 1F A9 AD 8D Ø6 1F Α9 91 1C99:36 8D Ø9 1F A9 ØØ 8D Ø8 D3 60 A9 00 FD A9 Ø4 32 1CAl:1F 85 1CA9:8D ØØ DØ 98 2Ø FA 1E 85 FA 2Ø FA 1E 85 FB 8D 4B 1CB1:FC 8A A9 ØC 8D 27 1CB9:01 D0 DØ AD F4 1CC1:10 D0 Ø9 Ø1 8D 10 DØ AD 63 2Ø 74 DØ Ø9 Ø1 8D 15 DØ 1CC9:15 AD 6B 1F FØ F8 29 23 1CD1:1A 1F 1CD9:13 FØ F4 AA 29 1Ø DØ 27 73 29 FØ 11 AD Ø1 DØ EA 1 CE1:8A Ø1 1CE9:C5 FB FØ E3 C6 FD 38 E9 E8 1CF1:08 8D Ø1 DØ DØ D9 AD Ø1 Ø9 FC FØ D2 E6 FD 18 Ø1 1CF9:DØ C5 1DØ1:69 Ø8 8D Ø1 DØ DØ C8 A9 B8

### Chapter 2

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1DØ9:00	8D	27	DØ	2Ø	1A	1 F	AD	ED
1D11:6B	1 F	FØ	F8	29	1Ø	DØ	Ø7	8A
1D19:A9	ØС	8D	27	DØ	DØ	ВØ	AD	28
1D21:15	DØ	29	FE	8D	15	DØ	Α5	37
1D29:FD	6Ø	A2	Ø7	BD	Ø2	1 F	95	Ø9
1D31:F7	CA	10	F8	A9	øī	8D	28	40
1D31:F7	AD							
		15	DØ	Ø9	Ø2	8D	15	77
1D41:DØ	2Ø	1 A	1 F	ΑD	6B	1 F	FØ	6B
1D49:F8	6A	ВØ	14	6A	ВØ	43	6A	F8
1D51:BØ	6E	6A	ВØ	Ø5	6A	ВØ	Ø5	10
1D59:9Ø	E7	4C	FØ	1D	4C	E7	1 E	76
1D61:A5	F8	FØ	DD	AD	ØЗ	DØ	38	FB
1D69:E9	Ø4	8D	Ø3	DØ	C6	F8	A5	В4
1D71:F8	6A	ВØ	Ø3	4C	24	1 E	A5	DD
1D79:FD	E9	1A	85	FD	ВØ	Ø2	C6	46
1D81:FE	A5	FB	38					
	-			E9	19	85	FB	62
1D89:9Ø	ØЗ	4C	24	1 E	C6	FC	4C	EΑ
1D91:24	1 E	<b>A</b> 5	F8	C9	1 D	FØ	Α9	F7
1D99:AD	ØЗ	DØ	18	69	Ø4	8D	ØЗ	8Ø
lDAl:DØ	E6	F8	<b>A5</b>	F8	6A	ВØ	7в	C5
1DA9:A5	FD	69	1A	85	FD	9Ø	Ø2	4C
1DB1:E6	FE	<b>A5</b>	FB	18	69	19	85	Bl
1DB9:FB	9Ø	68	E6	FC	4C	24	1E	11
1DC1:A5	F7	DØ	Ø3	4C	42	ĩD	AD	6A
1DC9:02	DØ	38	E9	Ø4	8D	Ø2	DØ	ØA
1DD1 : C6	F7	A5	F7	6A	9Ø	4C	A5	75
						_		
1DD9:FD	E9	Øl	85	FD	BØ	Ø2	C6	83
lDE1:FE	A5	FB	38	E9	Øl	85	FB	62
1DE9:BØ	39	C6	FC	4C	24	1 E	<b>A</b> 5	48
1DF1:F7	C9	31	DØ	ØЗ	4C	42	1D	В8
1DF9:AD	Ø2	DØ	18	69	Ø4	8D	Ø2	9F
1 EØ1 : DØ	<b>E6</b>	F7	<b>A5</b>	F7	6A	9Ø	ØЗ	46
1EØ9:4C	24	1E	A5	FD	69	Ø1	85	AF
1Ell:FD	9Ø	Ø2	E6	FE	A5	FB	18	BD
1E19:69	ø1	85	FB	9ø	Ø5	E6	FC	1 E
1E21:4C	24	1E	A9	Ø1	85	F9	A5	A2
1E29:F8	4A	9Ø	Ø4	Ø6	F9	Ø6	F9	E4
1E31:A5	F7	6A	BØ	Ø2	Ø6	F9	ΑØ	53
						_		
1E39:00	Bl	FB	85	Ø2	A5	F9	31	85
1E41:FD	DØ	26	A9	CØ	24	Ø2	ЗØ	DA
1E49:ØD	Α5	Ø2	29	3F	AΑ	BD	78	ΕØ
1E51:22	85	Ø2	4C	6A	1E	5Ø	Ø7	78
1E59:A9	ØØ	85	Ø2	4C	6A	1E	<b>A5</b>	29
1E61:02	29	3 <b>F</b>	AA	BD	79	22	85	19
1E69:02	A2	ØF	ΑØ	1Ø	18	2Ø	FØ	4D
1E71:FF	Α9	95	2Ø	D2	FF	Α9	2Ø	D6
1E79:A2	Ø7	2Ø	D2	FF	CA	1Ø	FA	4Ø
1E81:A9	9 D	A2	Ø7	2Ø	D2	FF	CA	D5
1E89:10	FA	A5	Ø2	DØ	Ø3	4C	42	CE
1E91:1D	29	3 F	ØA	AA	BD	DC	21	56

1E99:20 D2 FF BD DD 21 2Ø D2 1EAl:FF 2Ø 20 D2 FF A9 BD ØØ 60 1EA9:78 AA C9 Ø5 ØA BØ A9 2Ø **B3** 1EB1:20 D2 FF Α9 ØØ 2Ø CD BD 27 D2 1EB9:A9 1 D 2Ø FFΑ9 9Ø 20 2B 1EC1:D2 FF 12 20 D2 FF A9 A9 **B3** 1EC9:AØ 2Ø D2 FF **A5** Ø2 29 3F 7 F E8 DD 24 1ED1:A2 ØØ 7F ВØ FA 43 1ED9:8A 69 ВØ 2Ø D2 FF Α9 92 4A 1EE1:20 D2 FF 4C 42 1 D AD 15 9E 29 8D 15 A2 1EE9:DØ FD DØ Ø7 Α9 F7 9D Ø2 1F 1EF1:B5 **CA 10** F8 18 1EF9:60 EA ØA ØA ØA 18 69 32 **B8** ØØ 1FØ1:60 ØØ ØØ ØØ ØØ ØØ ØØ 6F 1FØ9:ØØ CØ CØ ΕØ FØ ΕØ CØ **C8** F2 1F11:FF FF 99 81 C3 C3 81 99 64 1F19:FF A9 ØØ 8D 6B 1F AD ØØ CD 1F21:DC 29 1 F 49 1 F DØ 2D AD **D4** 1F29:01 DC 29 1F 49 1F DØ 24 C2 FF 1F31:20 E4 DØ Ø1 6Ø 38 E9 **A9** 1F39:49 9Ø DE E8 E9 Ø5 ВØ 7Ø AA 1F41:D8 8A 29 Ø2 FØ 8A C9 Ø4 49 1F49:01 AA A9 ØØ 8D 6B 1 F 38 78 1F51:2A CA DØ FC 8D 6B 47 1 F AD 1F59:00 DC 2D Ø1 DC 29 1Ø FØ 21 **A2** 1F61:F6 A9 Ø6 65 C5 **A2** DØ DE 1F69:FC 60 00 20 FA 1A 2Ø Bl 72 C9 1F71:1A A5 Ø2 1A 9Ø Ø3 2Ø 3C 1F79:84 1B 2Ø 7A 21 20 84 1B 1A 2Ø 1F81:20 7A 21 A9 Ø1 CF 19 6E 1F89:AØ Ø5 B1 FB 4A 4A AA AØ CØ 1F91:02 8A 18 71 FB 9Ø Ø2 **A5** 59 1F99:FF 91 FB 88 DØ F3 AØ Ø2 DD 1FAl:D1 FB DØ 13 ΑØ Ø3 83 Bl FB 1FA9:C8 38 Fl FB **A9** 8Ø 2A A8 **A4** 1FB1:C8 B1 FB E9 Ø1 91 FB**A5** CA 1FB9:FB 18 69 Ø5 85 C9 29 FB FF 9C 1FC1:DØ C6 2Ø FA 1A 2Ø Bl 1 A 29 1FC9:A2 33 BD ØØ 9Ø 11 FØ 1A 9Ø CA DØ 1FD1:03 1E 00 F3 2Ø C3 1FD9:6C 1B 2Ø ED Ø9 2Ø 57 16 85 2Ø CD 15 ØF 41 1FE1:20 5A 0B A2 2Ø 1FE9:86 Ø2 ΑØ 1D 18 FØ FF F4 1FF1:A9 98 20 D2 FFΑ9 20 A2 E5 FA E6 96 1FF9:0B 20 D2 FF CA DØ 2001:02 A6 02 ΕØ 18 DØ E3 AD B3 2009:64 07 8D 8C Ø7 8D **B4** Ø7 96 2011:8D DC 07 Α9 2Ø A2 ØB 9D ØA 2019:DC 07 CA FA A9 DØ 14 8D 24 2021:E2 07 A9 00 A2 03 95 03 19

2029:CA	10	FB	Α9	Ø9	85	ΑE	A9	52
2031:00	8D	2Ø	8F	EE	2Ø	8F	AD	96
2039:20	8F	C9	ØA	DØ	Ø3	4C	3Ø	A2
2041:20	2Ø	99	21	Α9	ØØ	85	B2	E9
2049:85	В3	A2	Ø4	86	FB	ΑØ	1F	52
2051:84	FC	A9	BE	85	F7	85	F9	45
2059:A9	Ø4	85	F8	85	FA	A6	A7	BC
2061:A0	Ø3	A9	20	91	F7	88	1Ø	77
2069:FB	A5	F7	18	69	28	85	F7	8ø
2071:90	Ø2	E6	F8	CA	DØ	E9	ΑE	Ø3
2079:20	8F	BD	7F	24	85	FE	CA	5D
2081:BD	7F	24	85	FD	A6	FB	A4	84
2089:FC	18	20	FØ	FF	A6	FD	BD	B5
2009:10	90	29	ØF	DØ-		4C	6F	A6
2091:00	BD	44	22	AA	18	65	B2	B7
2099:21 20Al:85	B2	8A	C9	ØA	BØ	Ø5		Ø6
20A1:05	20						A9	
		D2	FF	A9	9A	20	D2	27
20B1:FF	A9	ØØ	2Ø	CD	BD	A6	FB	ØD
2ØB9:AØ	25	18	20	FØ	FF	ΑØ	Ø3	64
20Cl:A9	2Ø	2Ø	D2	FF	88	DØ	FA	CE
2ØC9:E6	FB	E6	FD	C6	A7	DØ	B5	65
20 Dl : A5	AE	DØ	Ø3	4C	69	21	AD	D2
2ØD9:2Ø	8F	18	69	ØE	AA	ΑØ	1F	23
2ØE1:18	2Ø	FØ	FF	A9	9A	2Ø	D2	1 F
2ØE9:FF	<b>A</b> 5	B2	AA	C9	ØA	ВØ	Ø5	71
20F1:A9	2Ø	2Ø	D2	FF	Α9	ØØ	2Ø	Ø7
2ØF9:CD	BD	Α9	9C	2Ø	D2	FF	Α9	85
2101:20	48	2Ø	D2	$\mathbf{F}\mathbf{F}$	AD	2Ø	8F	1 D
2109:09	ЗØ	2Ø	D2	$\mathbf{F}\mathbf{F}$	68	2Ø	D2	Cl
2111:FF	2Ø	D2	$\mathbf{F}\mathbf{F}$	<b>A</b> 5	В3	AΑ	C9	DØ
2119:ØA	ВØ	Ø5	A9	2Ø	2Ø	D2	$\mathbf{F}\mathbf{F}$	$\mathbf{E}\mathbf{E}$
2121:A9	1C	2Ø	D2	FF	Α9	ØØ	2Ø	37
2129:CD	BD	<b>A2</b>	18	ΑØ	1E	18	2Ø	65
2131:FØ	$\mathbf{F}\mathbf{F}$	A9	98	2Ø	D2	$\mathbf{F}\mathbf{F}$	<b>A5</b>	9C
2139:B2	18	65	ØЗ	85	ØЗ	Α9	ØØ	43
2141:65	Ø4	85	Ø4	<b>A5</b>	В3	65	Ø5	F3
2149:85	Ø5	Α9	ØØ	65	Ø6	85	Ø6	19
2151:A6	ØЗ	A5	Ø4	20	CD	BD	A2	F2
2159:18	AØ	24	18	2Ø	FØ	FF	A6	41
2161:05	A5	Ø6	20	CD	BD	C6	AE	F3
2169:20	2E	11	4C	35	20	BD	44	18
2171:22	18	65	B3	85	B3	4C	C9	10
2179:20	AD	1A	8F	8D	81	8F	2Ø	25
2181:F3	1B	A9	ØØ	8D	81	8F	AE	F9
2189:20	8F	BD	7 F	24	A8	CA	BD	86
2191:7F	24	AA	CA	20	F7	1 B	6Ø	16
2199:A9	9C	20	D2	FF	20	EB	11	72
21 A1 : A2	Ø3	AØ	1E	18	20	FØ	FF	ØF
21A9:2Ø	C1	21	AE	20	210 8F	BD	7F	B5
21 B1 : 24	CA	38	FD	7F	24	85	A7	DE
41 DT 9 7 4		20	עיב	/ E	~ ~	$\mathbf{o}$	n./	מע

21B9:69 Ø3 AA AØ 1E 2Ø FØ FF 24 21 C1: A2 ØØ BD CF 21 DØ Ø1 6Ø **B8** 21C9:20 D2 FF E8 D0 F4 9A 44 33 21D1:45 4D 2Ø 2Ø 20 20 1 C 52 1 C 21D9:45 50 00 20 20 4D 45 4E E3 21E1:48 56 54 4D 41 52 49 43 66 21E9:54 4E 59 4E 4A 5Ø 41 4F 5F 21F1:48 49 4E 49 4C 4D 49 57 **8**A 21F9:49 4D 4E 49 41 4D 4F 4E BE 2201:44 53 44 4E 45 4B 53 44 EB 22Ø9:45 4D 44 44 43 56 41 57 5D 2211:56 4E 43 53 43 47 41 46 B1 2219:4C 4B 59 54 4E 41 4C 4D 24 2221:53 41 52 4C 41 4F 4B 54 ΑØ 2229:58 4D 54 49 44 57 59 43 81 5A 55 54 4E 2231:4F 4E 4D 41 80 2239:56 57 41 4F 52 43 41 41 FE 2241:4B 48 49 ØØ Ø4 Ø4 Ø3 ØD A9 2249:04 Ø8 24 10 17 19 ØC 18 6C 2251:14 ØB ØA Ø8 ØB Ø3 Ø3 Ø5 93 2259:07 03 0A 03 0C 06 0D 08 ED 2261:ØC 15 Ø9 ØB Ø9 Ø7 Ø6 ØA 3 D 2269:08 1D 04 04 03 08 05 Ø7 Ø3 2271:05 Ø4 ØA Ø7 2F ØЗ Ø4 ØØ 78 2279:01 03 03 Ø4 Ø5 Ø8 Ø9 Ø8 Ø2 2281:ØA 1A 1F ØB ØE 1Ø ØE ØC BE 2289:25 ØC 13 1Ø 11 14 19 Ø9 DA 2291:20 19 19 1D 1B 1E 1A 1F C5 2299:1D 2Ø 11 22 26 23 28 28 EE 22Al:29 2A 26 25 28 2E 31 28 CA 22A9:2C ØØ ØØ ØØ EF EF 2F 6F 11 22B1:E7 E7 E7 E7 E7 D2 D2 D2 62 22B9:CF CF CF ØØ ØØ ØØ ØØ ØØ D3 22C1:00 00 ØØ C1 Cl EF 2F 2F 7D 27 27 22C9:6F 67 27 27 12 12 Ø3 22D1:12 ØF 4F 4F 4D CD CD ØØ FE 22D9:00 00 00 ØØ Cl Cl FØ 3Ø 45 22E1:30 70 67 27 27 13 FØ 27 27 22E9:13 13 ØF ØF 4F ØE CE CD 6D 22F1:00 ØØ ØØ C7 Ø7 42 Cl FØ 68 29 45 22F9:3Ø 3Ø 28 28 67 29 29 2301:13 13 13 1Ø 1Ø 4E 8C CD 99 2Ø 2309:0D CD C9 C7 Ø4 Ø7 Ø7 C4 31 6E 2E 2E 2D 29 29 EE 2311:F1 2319:29 14 14 14 54 10 50 ØC 4C 2321:4C ØB ØA 49 Ø9 Ø9 47 46 67 2329:C5 F1 31 6E 2E 2E 2D 2D 8D 2331:2A 2A 2A 95 95 95 11 91 6C 2339:ØC 4C ØB 8A 4A 89 58 97 63 2341:C8 ØØ ØØ 31 31 6E 2E 2D CB

## Chapter 2

2349:2D	2A	2A	2A	15	15	15	55	15
2351:11	91	4C	4B	1 F	5 F	5A	19	Ø7
2359:57	D6	ØØ	ØØ	F1	31	6E	AC	DE
2361:2C	2C	2B	2B	AΒ	65	25	25	43
2369:51	63	11	6Ø	6Ø	6Ø	59	5B	EΒ
2371:5B	5 B	ØØ	ØØ	ØØ	ØØ	F1	31	51
2379:71	2C	2C	2B	2B	2B	26	25	33
2381:25	<b>A5</b>	23	23	62	Al	ΑØ	5D	92
2389:9C	1B	DB	ØØ	ØØ	ØØ	ØØ	F1	52
2391:31	71	2C	2C	2B	2B	6B	26	18
2399:26	26	66	23	<b>A3</b>	22	21	61	C4
23Al:1D	5C	9C	ØØ	ØØ	ØØ	ØØ	ØØ	21
23A9:00	ØØ	ØØ	EC	EC	EB	E6	26	C9
23B1:26	26	26	26	24	64	22	21	D3
23B9:21	1D	1D	øø	øø	øø	øø	ØØ	7B
23C1:F2	32	F2	øø	F3	ØØ	ØØ	ØØ	øс
23C9:E6	E6	26	26	E6	24	E4	E2	D8
23 D1 : E1	DE	DE	1E	øø	øø	øø	ØØ	7E
23D9:00	F2	32	32	ØØ	øø	F3	ØØ	2E
23E1:00	øø	ØØ	E6	E6	øø	ØØ	øø	CD
23E9:00	ØØ	ØØ	ØØ	DE	DE	ØØ	ØØ	A2
23F1:00	ØØ	F2	F2	F2	F2	ØØ	ØØ	29
23F9:F3	ØØ	ØØ	ØØ	ØØ	E6	ØØ	ØØ	D5
2401:00	ØØ	ØØ	ØØ	ØØ	DE	1E	DE	DF
2401:00	ØØ	F2	ØØ	ØØ	ØØ	F2	ØØ	95
2411:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	59
2411:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	DE	4Ø
		ØØ		20	52	45	47	F4
2421 :DE	ØØ		FF					Ø4
2429:49	4F	4E	53	ØØ	4E	45	57	
2431:20	45	4E	47	4C	ØØ	55	52	78
2439:42	41	4E	20	4E	45	ØØ	48	8E
2441:45	41	52	54	4C	4E	44	ØØ	3Ø
2449:47	2Ø	5Ø	4C	41	49	4E	53	2B
2451:00	41	54	4C	41	4E	54	49	6E
2459:43	ØØ	53	4F	55	54	48	45	74
2461:52	4E	ØØ	41	52	4B	4C	41	14
2469:54	45	58	ØØ	4D	4F	55	4E	D8
2471:54	41	49	4E	ØØ	5Ø	41	43	49
2479:49	46	49	43	2Ø	ØØ	Ø1	Ø7	5F
2481 :ØA	ØF	16	1 F	23	27	2 F	34	8F
2489:34	DC	F3	F3	2F	3F	DC	4 E	5F
2491:E4	4D	4D	E4	<b>E</b> 3	CE	5C	3 E	E8
2499:F3	5C	E3	F2	<b>E3</b>	F3	63	3 F	93
24Al:2F	E4	3 F	45	64	BE	45	46	E5
24A9:64	4D	4D	46	46	D4	4E	D4	7C
24B1:F3	F3	C5	D4	E4	F3	C5	EB	65
24B9:F2	E4	F2	2 F	21	3B	21	F6	35
24C1:68	7E	CA	BD	24	61	59	BD	2A
24C9:DC	34	76	7A	51	26	Ø3	AΒ	D8
24 D1 : BA	EE	FE	CC	AΒ	Ø2	5Ø	46	2C

#### Type It In

24D9:46 EB ØØ 91 45 Ø1 Ø1 86 1Ø 77 DF 24E1:57 CB 61 6Ø 42 EA **A5** 24E9:AA F6 F5 EA 9E 7C FE 6F Ø7 24F1:F7 39 43 9F D3 42 1B 5F 24 Ø5 41 34 E9 24F9:1D 68 A4 В3 3A 25Ø1:2C 38 Ø4 88 11 D2 42 E6 В7 2509:3F A9 AF 4D 9A 39 3D 5C B8 D8 25 75 2511:8C 3E 2F 78 3B Ø5 2519:91 D5 91 F3 BB F2 ØB E6 В9 2521:83 C1 ØØ ØØ 44 52 55 9F 53 2529:1C 98 ØØ ØØ ØØ ØØ ØØ A7

## Program 4 Heat Seeker

You need a copy of MLX on tape or disk before you can type in Heat Seeker. Load and run MLX, then respond to the questions with

Starting address: 0801 Ending address: 1828

After you've finished typing in the data for Heat Seeker, be sure to save a copy to tape or disk before exiting MLX.

#### **Heat Seeker**

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
Ø8Ø1:ØD Ø8 Ø1 ØØ 9E 32 3Ø 36 ØE
Ø8Ø9:31 ØØ ØØ ØØ A9 ØE 8D 21
Ø811:DØ A9 Ø2 8D 2Ø DØ AØ 18 AA
Ø819:A9 ØØ 99 FF D3
                    88 DØ FA 8E
Ø821:A9 Ø2 8D 17 D4 A9
                       1F 8D C2
Ø829:18 D4 A9 Ø8 8D 16 D4 A9 48
Ø831:Ø3 8D Ø8 D4 A9
                    3D 8D ØC DD
Ø839:D4 A9 ØØ 8D ØF D4 8D ØE EB
Ø841:D4 A9 2Ø 8D 13 D4 A9 7F
                              C1
Ø849:8D 14 D4 A9 81 8D 12 D4
Ø851:A9 Ø1 8D Ø3 D4 A9
                       19 8D 65
Ø859:Ø5 D4 A9 ØØ 8D 24
                       18 2Ø
                              A3
Ø861:6B 13 2Ø E9 11
                    A9
                       3Ø AØ
                              BF.
Ø869:Ø6 99 C8 Ø7 88 DØ FA 8C
                              76
                    3Ø 12 AØ
Ø871:2Ø 18 AC 28 18
                              F5
Ø879:Ø6 99 E1 Ø7 88 DØ FA A9
Ø881:32 8D C6 Ø7 A9 31 8D DF 64
Ø889:07 A9 FC 8D Ø3
                    18 A9 ØB D6
Ø891:A2 Ø4 9D DB 17 E8 E8 EØ
Ø899:1Ø DØ F7
              20 7F 0D A9 08
                              72
Ø8A1:8D 21 18 8D 22 18 4C 3D E3
Ø8A9:ØB A9 ØØ 8D Ø1 18 8D Ø2 Ø8
Ø8B1:18 2Ø 61 ØD AD ØE 18 C9
                              72
Ø8B9:FF DØ 22 2Ø 3C ØD AD 19 CE
Ø8C1:18 C9 Ø8 9Ø Ø4 C9 F8 9Ø
                              24
Ø8C9:14 AD 1A
              18
                 C9 Ø8 9Ø Ø4 A7
              Ø9 2Ø 46 ØD 2Ø FB
Ø8D1:C9 F8 9Ø
Ø8D9:79 ØD 4C
              14 ØB AD Ø1
                           18 DD
                 ØA 78 A9
                          FD EA
Ø8E1:FØ Ø3 2Ø 83
Ø8E9:8D ØØ DC AD Ø1 DC 29 8Ø 85
```

Ø8F1:FØ F3 A9 F7 8D ØØ DC 58 AA Ø8F9:A9 Ø4 8D 1D 18 A2 ØØ BD 6C 7F 9Ø Ø6 AD 1D 1D Ø9Ø1:FB 17 C9 Ø9Ø9:18 2Ø 6C ØA ØE 1D 18 E8 5B 1F 5C Ø911:EØ Ø6 DØ EB A5 Al CD Ø919:18 FØ Ø6 8D 1F 18 2Ø 71 Ø921:ØC AD ØE 18 1Ø 21 C9 CØ 41 Ø929:FØ 1D C9 FF FØ 19 2Ø F4 CØ Ø931:ØB 9Ø Ø7 A9 8D ØE 18 D8 Ø939:DØ ØD A9 FF 8D ØE 18 A9 AA Ø941:8Ø 8D 19 18 8D 1A 18 ΑØ 41 Ø949:Ø9 A9 FF D9 Ø4 18 FØ ØD 57 Ø951:88 DØ F8 AD ØE 18 C9 CØ FA Ø959:DØ Ø3 4C Ø4 ØВ AD 1 F DØ 7C Ø961:8D ØF 18 29 Ø1 FØ Ø9 2Ø 91 Ø969:39 ØA 2Ø 46 ØD 4C 3D ØB 22 Ø971:AD ØF 18 29 Ø2 FØ Ø3 2Ø Ø979:13 ØA AD ØF 18 29 FC DØ 6E Ø981:Ø3 4C B2 Ø8 8D ØF 18 A9 81 Ø989:04 8D 1E 18 AA AD 1 E 18 **A6** Ø991:2D ØF 18 FØ Ø3 2Ø A5 Ø9 Ø999:ØE 1E 18 E8 E8 EØ 10 DØ 87 Ø9A1:EC 4C B2 Ø8 2D 10 D0 FØ 5Ø Ø9A9:Ø2 38 24 18 BD ØØ DØ 6A CA Ø9B1:38 E9 Ø8 BØ Ø2 A9 ØØ C9 E6 Ø9B9:AØ 9Ø Ø2 Α9 9Ø 4A 4A 4A Ø9Cl:4A A8 В9 Ø4 18 C9 FF DØ 53 Ø9C9:48 A9 CØ 99 Ø4 18 A9 ØØ EF Ø9D1:9D C5 17 9D C6 17 A9 E2 A9 38 E9 8E Ø9D9:9D Ø1 DØ BD ØØ DØ Ø9E1:1Ø 29 EØ 18 69 1C 9D ØØ DA Ø9E9:DØ 2Ø 8C ØC 8A 4A AA A9 3B Ø9F1:4Ø 9D F9 17 A9 FF 9D F8 BD Ø9F9:Ø7 8A ØA AA 2Ø 31 ØD 98 96 ØAØ1:ØA ØA A8 A9 6Ø 99 71 Ø7 ØAØ9:99 72 Ø7 99 99 Ø7 99 9A ØAll:07 60 AD 0E 18 C9 FF D0 1Ø ØA19:1E 2Ø A7 ØC 2Ø 31 ØD A9 83 ØA21:00 8D C7 17 8D C8 17 8D 4E ØA29:ØE 18 A9 E2 8D Ø3 DØ A9 71 ØA31:02 8D 28 DØ 2Ø 46 ØD 6Ø ØA39:A9 ØØ 8D C5 17 8D C6 17 ØA41:A9 E2 8D Ø1 DØ A9 Ø2 8D 63 ØA49:27 DØ A9 Ø1 ØD 1C DØ 8D 72 ØA51:1C DØ 20 79 ØD 20 31 ØD 9B ØA59:AØ CØ 84 A2 AD 1F DØ 29 5D ØA61:02 FØ Ø3 2Ø 13 ØA A4 A2 C1 ØA69:DØ F2 6Ø ØD Ø3 18 8D Ø3 ØA71:18 AD 1D 18 49 FF 2D 15 DB ØA79:DØ 8D 15 DØ A9 FE 9D FA 88

ØA81:07 60 AD Ø2 18 C9 1C BØ D7 ØA89:Ø6 A9 ØØ 8D Ø1 18 6Ø AD BA 18 DØ Ø1 6Ø Α9 ØA91:Ø3 ØØ 8D 8E ØA99:01 18 8D Ø2 18 A9 Ø4 AA 2Ø ØAA1:A8 2D Ø3 18 DØ ØA 98 ØA 21 ØAA9:A8 E8 E8 EØ 10 DØ F2 6Ø ØAB1:8D 1D 18 ØD 15 DØ 8D 15 ØAB9:DØ AD 1D 18 49 FF A8 2D 8F 18 8D Ø3 18 AD 1Ø DØ **A7** ØAC1:03 ØAC9:29 Ø1 FØ ØC AD 1D 18 ØD BØ 8D 1Ø DØ 4C EØ ØA 58 ØAD1:1Ø DØ ØAD9:98 2D 1Ø DØ 8D 10 D0 AD 9Ø ØAE1:C5 17 9D C5 17 AD C6 17 ØAE9:9D C6 17 AD ØØ DØ 9D ØØ BA 9D Ø1 DØ 8A 24 ØAF1:DØ AD Øl DØ ØAF9:4A A8 A9 ØØ 99 F9 17 58 CD 2Ø 18 21 ØBØ1:4C 4C ØD AE FE 5D ØBØ9:18 AØ ØA 2Ø A7 ØC 88 DØ E5 ØB11:FA FØ 29 A9 ØØ 8D C5 17 79 ØB19:8D C7 17 8D C6 17 8D C8 1A ØD AD 1C DØ Ø9 4A ØB21:17 2Ø 31 ØB29:Ø1 8D 1C DØ A9 Ø2 8D 27 4B ØB31:DØ 8D 28 DØ **A9** CØ 85 A2 23 ØB39:A5 A2 DØ FC 78 Α9 64 8D 75 C2 ØB41:00 D0 A9 64 8D 01 D0 A9 ØB49:00 8D 10 D0 A9 Ø1 8D 15 53 ØB51:DØ A9 FØ 8D F8 Ø7 Α9 ØF 77 FE 2D 1C DØ ØB59:8D 27 DØ A9 6A ØB61:8D 1C DØ A9 ØØ 85 ΑØ 85 D6 18 2Ø 52 ØB69:A1 85 A2 8D 1F ØB71:13 A2 Ø9 A9 FF 9D Ø4 18 ØC ØB79:CA 10 FA A9 ØØ 8D ØE 18 5D ØB81:AD 1F DØ AD 1E DØ 2C 28 DF C5 Ø7 Ø7 ØB89:18 3Ø 1C AØ Ø9 В9 ØB91:AA B9 DE Ø7 99 C5 Ø7 8A 34 ØB99:99 DE Ø7 88 DØ EF A9 Ø1 38 2Ø 2Ø ØBAl:38 ED 18 8D 18 AE AØ ØBA9:20 18 BD 21 18 DØ 13 AØ 6A ØBB1:00 2C 28 18 30 Ø1 C8 B9 2A ØBB9:21 18 DØ CA 88 1Ø F8 4C EF ØBC1:AE ØC DE 21 18 21 32 BD 18 74 ØBC9:18 69 31 8D D6 Ø7 AD Ø1 ØBD1:DC 2D ØØ DC 29 10 D0 F6 91 2D ØØ DC 29 ØBD9:AD Ø1 DC 10 4B A9 ØØ 8D C6 ØBE1:FØ F6 17 8D A6 55 8D C5 ØBE9:C7 17 A9 17 58 3E ØBF1:4C AA Ø8 ΑØ Ø9 В9 Ø4 18 33 ØBF9:C9 FF FØ ØD 88 1Ø **F6** A9 FF ØCØ1:FD 2D 15 DØ 8D 15 DØ 38 AD ØCØ9:6Ø A9 CØ 99 Ø4 18 98 ØA 29

ØC11:ØA A8 A9 6Ø 99 71 Ø7 99 ØC19:72 Ø7 99 99 Ø7 99 9A Ø7 D3 ØC21:98 ØA ØA ØA 48 90 ØA A9 2C ØC29:02 ØD 1Ø DØ 8D 1Ø DØ DØ **B3** ØC31:08 A9 FD 2D 1Ø DØ 8D 39 1Ø ØC39:DØ 68 18 69 1C 8D Ø2 DØ 59 ØC41:A9 E2 8D Ø3 DØ A9 F7 8D 73 ØC49:F9 Ø7 A9 AB 8D C8 17 AD 7B ØC51:1F DØ 2C 11 DØ 3Ø FB AD BØ ØC59:12 DØ C9 F2 DØ F4 A9 Ø7 CB ØC61:8D 28 DØ A9 Ø2 ØD 15 DØ 3E ØC69:8D 15 DØ 1 F AD DØ 18 6Ø 4F ØC71:48 8A 48 A2 Ø5 FE C8 Ø7 4Ø ØC79:A9 3A DD C8 Ø7 Ø8 72 DØ A9 ØC81:3Ø 9D C8 Ø7 CA DØ EE 68 82 ØC89:AA 68 6Ø 48 8A 48 AD CD 40 ØC91:07 18 69 Ø5 C9 3A BØ Ø5 4E ØC99:8D CD Ø7 DØ EA E9 ØA 8D 7A ØCAl:CD Ø7 A2 Ø4 DØ CF 48 8A D7 C8 78 ØCA9:48 A2 Ø4 DØ A9 31 C8 ØCB1:8D 14 Ø3 Α9 EA 8D 15 Ø3 4B ØCB9:58 A9 3Ø 8D D6 Ø7 2Ø 84 DE ØCC1:FF AØ 2Ø ØD C9 1Ø В9 40 A8 ØCC9:9Ø Ø3 38 E9 4Ø 99 ØB Ø4 13 ØCD1:A9 Ø3 99 ØB D8 88 DØ EB D9 ØCD9:C8 8C 25 18 AD 25 18 DØ A2 ØCE1:ØC A9 2D 8D 19 Ø4 A9 3E 53 ØCE9:8D 1A Ø4 DØ ØA A9 3C 8D D9 ØCF1:19 Ø4 A9 2D 8D 1A Ø4 AD 2A ØCF9:00 DC 2D 01 DC 4A 4A 4A ED ØDØ1:BØ Ø5 AØ Ø1 8C 25 18 4A 4C ØDØ9:BØ Ø5 AØ ØØ 8C 25 18 4A 44 ØD11:BØ CA 2Ø 81 FF AD 25 18 6B ØD19:FØ Ø3 4C ØD Ø8 85 C6 ØØ AA ØD21:5Ø 4C 41 59 20 41 47 41 ØA ØD29:49 4E 3F 20 59 20 2Ø 4E 3F ØD31:A9 8Ø 8D ØB D4 A9 81 8D 8Ø ØD39:ØB D4 6Ø A9 FF 38 ED Ø3 74 ØD41:DØ 8D ØF D4 6Ø A9 ØØ 8D 8D ØD49:ØF D4 6Ø A9 18 8D 24 18 1E ØD51:A5 A2 8D 23 18 A9 4Ø 8D 4Ø ØD59:04 D4 A9 41 8D 04 D4 6Ø 7A ØD61:A5 A2 CD 23 18 FØ 1Ø 8D 15 ØD69:23 18 AD 24 18 C9 3Ø BØ ØC ØD71:07 8D Ø1 D4 EE 24 18 6Ø 78 ØD79:A9 ØØ 8D Ø1 D4 6Ø 78 A9 EC ØD81:91 8D 14 Ø3 A9 ØD 8D 15 2C ØD89:03 A9 ØE 8D Ø5 DC 58 6Ø ØD91:AD ØØ DC 2D Ø1 DC 8D 26 AD ØD99:18 AD C5 17 ØD C6 17 DØ D7

ØDA1:03	4C	39	ØE	AD	26	18	29	В7
ØDA9:10	DØ	Ø3	EE	Ø1	18	AD	26	39
ØDB1:18	29	ØЗ	C9	Ø3	DØ	ØЗ	4C	CC
ØDB9:39	ØE	ΑD	D9	17	8D	14	18	76
ØDC1:AD	C5	17	8D	12	18	2Ø	A7	B8
ØDC9:11	AD	26	18	29	Ø2	DØ	16	27
ØDD1:38	AD	D6	17	ED	iø	18	8D	2D
ØDD9: D6	17	AD	C6	17	ED	11	18	Fl
ØDE1:8D	C6	17	4C	FA	ØD	18	AD	Ø6
ØDE9: D6	17	6D	1Ø	18	8D	D6	17	9F
ØDF1:AD	C6	17	6D	11	18	8D	C6	19
ØDF9:17	AD	D9	17	8D	14	18	AD	52
ØEØ1:C6	17	8D	12	18	2Ø	A7	11	BA
ØEØ9:AD	26	18	29	Ø2	DØ	16	18	B2
ØEll:AD	D5	17	6D	10	18	8D	D5	Ø5
ØE19:17	AD	C5	17	6D	11	18	8D	C3
ØE21:C5	17	4C	39	ØE	38	AD	D5	85
ØE29:17	ED	1Ø	18	8D	D5	17	AD	6F
ØE31:C5	17	ED	11	18	8D	C5	17	5E
ØE39:AD	øø	DØ	38	ED	Ø2	DØ	9ø	73
ØE41:02	18	24	38	6A	8D	19	18	40
ØE49:AD	ø1	DØ	38	ED	Ø3	DØ	9Ø	C7
ØE51:02	18	24	38	6A	8D	1A	18	52
ØE59:A9	Ø3	2D	1Ø	DØ	FØ	2E	C9	22
ØE61:03	FØ	2A	C9	Ø1	FØ	13	AD	BC
ØE69:19	18	38	E9	8Ø	C9	A5	ВØ	E4
ØE71:Ø3	18	69	AC	8D	19	18	4C	5 A
ØE79:A6	ØE	AD	19	18	18	69	8Ø	28
ØE81:C9	55	90	ø3	38	E9	AC	8D	6A
ØE89:19	18	4C	A6	ØE	AD	19	18	9D
ØE91:3Ø	ø9	C9	55	3Ø	ØC	38	E9	A2
ØE99:AC	9ø	Ø7	C9	A5	1Ø	Ø3	18	39
ØEA1:69	AC	8D	19	18	ΑD	ØE	18	8C
ØEA9:3Ø	Ø3	4C	FD	ØF	A9	ØØ	2C	53
ØEB1:C8	17	30	ø9	2C	C7	17	10	4D
ØEB9:ØE	A9	Ø1	DØ	ØA	2C	C7	17	ic
ØEC1:1Ø	Ø3	A9	Ø2	2C	A9	ø3	8D	97
ØEC9:17	18	A9	øø	2C	1A	18	3Ø	D6
ØED1:09	2C	19	18	ĩØ	ØE	A9	Ø1	2F
ØED9:DØ	ØA	2C	19	18	ĩø	Ø3	A9	A8
ØEE1:02	2C	A9	ø3	8D	18	18	AD	1A
ØEE9:17	18	38	ED	18	18	4A	9Ø	C3
ØEF1:08	29	Ø1	8D	16	18	4C	83	82
ØEF9:ØF	FØ	12	A9	ØØ	38	ED	19	8C
ØFØ1:18	8D	19	18	A9	ØØ	38	ED	DE
ØFØ9:1A	18	8D	1A	18	A9	ØØ	8D	82
ØF11:1B	18	8D	10	18	AD	19	18	F7
ØF19:0D	10 1A	18	DØ	Ø3	4C	FD	ØF	A8
ØF21:AD	1B	18	18	6D		18	8D	EE
ØF21:AD ØF29:1B	18	AD	10 10	18	18	6D	1A	68
むじてコミエロ	TO.	שח	10	10	-0	שט		90

ØF31:18 8D 1C 18 AD 1B 18 38 Ø6 ØF39:ED C7 17 4D C7 17 10 ØE CØ ØF41:AD 1C 18 38 ED C8 17 4D D1 ØF49:C8 17 3Ø D4 1Ø 17 AD 1C ØF51:18 38 4D C8 17 3Ø ØB AC FB ØF59:17 18 CC 18 18 DØ Ø3 4C 7A ØF61:FD ØF A9 ØØ 2C A9 Ø1 2C AD ØF69:19 18 1Ø Ø2 49 Ø1 2C 1A FC ØF71:18 1Ø Ø2 49 Ø1 AC 17 18 75 ØF79:CC 18 18 FØ Ø5 49 Ø1 8D F2 ØF81:16 18 AD DA 17 8D 14 ØF89:AD C7 17 8D 12 18 20 A7 Ø5 ØF91:11 AD 16 18 DØ 16 38 AD E4 ØF99:D8 17 ED 1Ø 18 8D D8 17 68 ØFA1:AD C8 17 ED 11 18 8D C8 57 ØFA9:17 4C CØ ØF 18 AD D8 17 AF ØFB1:6D 10 18 8D D8 17 AD C8 AD ØFB9:17 6D 11 18 8D C8 17 AD CD ØFC1:DA 17 8D 14 18 AD C8 17 26 ØFC9:8D 12 18 20 A7 11 AD 16 2B ØFD1:18 DØ 16 18 AD D7 17 6D DC ØFD9:1Ø 18 8D D7 17 AD C7 17 4B ØFE1:6D 11 18 8D C7 17 4C FD Ø8 ØFE9:ØF 38 AD D7 17 ED 1Ø 18 79 ØFF1:8D D7 17 AD C7 17 ED 11 ØFF9:18 8D C7 17 A2 ØØ BD DB 5E 1001:17 8D 14 18 BD C5 17 8D D4 1009:12 18 20 A7 11 A9 ØØ 8D 1011:13 18 BD B5 17 2D 1Ø DØ 32 1019:F0 03 EE 13 18 18 BD EB ØA 1021:17 6D 10 18 9D EB 17 BD 34 1029:00 D0 6D 11 18 9D ØØ DØ 44 1031:90 03 EE 13 18 2C 11 18 15 1039:10 03 CE 13 18 2C 13 18 DC 1041:10 ØE A9 Ø1 8D 13 18 18 33 1049:BD 00 D0 69 58 9D 00 D0 03 1051:A9 01 CD 13 18 D0 13 BD 59 1059:00 D0 C9 58 90 ØC CE 13 D1 1061:18 38 BD 00 D0 E9 58 9D CF 1069:00 D0 AD 13 18 DØ ØC BD 7E 1071:B6 17 2D 1Ø DØ 8D 10 D0 1079:4C 85 10 BD B5 17 ØD 1Ø 1081:D0 8D 10 D0 BD DB 17 8D 95 1089:14 18 BD C6 17 8D 12 18 Ø9 1091:20 A7 11 18 BD EC 17 6D 8C 1099:10 18 9D EC 17 BD Ø1 DØ CC 10Al:6D 11 18 C9 1D BØ Ø2 A9 **B5** 10A9:1D C9 FA 90 02 A9 FA 9D 10B1:01 D0 E8 E8 E0 1Ø FØ ØЗ 5E 10B9:4C FF 0F 2C 02 18 30 03 78

10Cl:EE	Ø2	18	A2	Ø5	FE	FB	17	3A
10C9:CA	1Ø	FA	AD	ØE	18	3Ø	ØЗ	Cl
10D1:EE	ØE	18	AD	C7	17	DØ	ØD	14
1ØD9:AD	C8	17	DØ	Ø8	Α9	FF	8 D	67
1ØE1:F9	Ø7	4C	3C	11	A9	ØØ	8D	CA
1ØE9:15	18	AD	C7	17	ЗØ	ØC	C9	28
10F1:20	9Ø	11	Α9	Ø4	8D	15	18	9B
10F9:4C	Ø5	11	C9	ΕØ	ВØ	Ø5	Α9	BD
1101:06	8D	15	18	AD	C8	17	3Ø	9C
1109:10	C9	2Ø	9Ø	19	18	Α9	Ø8	37
1111:6D	15	18	8D	15	18	4C	27	D3
1119:11	C9	ΕØ	ВØ	Ø9	18	Α9	Ø9	62
1121:6D	15	18	8D	15	18	AD	15	94
1129:18	C9	Ø4	DØ	Ø2	Α9	ØA	C9	EΒ
1131:06	DØ	Ø2	Α9	ØВ	18	69	EE	DF
1139:8D	F9	Ø7	AD	C5	17	DØ	ØD	95
1141:AD	C6	17	DØ	Ø8	Α9	$\mathbf{FF}$	8D	5Ø
1149:F8	Ø7	4C	<b>A4</b>	11	Α9	ØØ	8D	3 A
1151:15	18	AD	C5	17	ЗØ	ØC	C9	71
1159:23	9Ø	11	Α9	Ø4	8D	15	18	86
1161:4C	6D	11	C9	ΕØ	BØ	Ø5	Α9	41
1169:06	8D	15	18	AD	C6	17	ЗØ	FC
1171:10	C9	2Ø	9Ø	19	18	Α9	Ø8	9F
1179:6D	15	18	8D	15	18	4C	8F	<b>A4</b>
1181:11	C9	ΕØ	ВØ	Ø9	18	Α9	Ø9	CA
1189:6D	15	18	8D	15	18	AD	15	FC
1191:18	C9	Ø4	DØ	Ø2	Α9	ØA	C9	54
1199:06	DØ	Ø2	A9	ØB	18	69	E6	4Ø
11A1:8D	F8	Ø7	4C	31	EA	AD	12	11
11A9:18	8D	1Ø	18	3Ø	Ø3	A9	ØØ	9F
11B1:2C	A9	FF	8D	11	18	ΑØ	Ø8	5 <b>F</b>
11 B9 : 88	ØE	14	18	9Ø	FA	CØ	ØØ	99
11C1:FØ	25	ØE	1Ø	18	2E	11	18	1C
11 C9 : ØE	14	18	9ø	17	18	AD	1Ø	88
11D1:18	6D	12	18	8D	10	18	9Ø	8C
11D9:03	EE	11	18	AD	12	18	1Ø	D2
11E1:Ø3	CE	11	18	88	DØ	DB	6Ø	7C
11E9:20	B5	FF	78	AD	16	DØ	ø9	81
11F1:10	8D	16	DØ	A9	1D	8D	18	44
11 F9 : DØ	A9	ø7	8D	23	DØ	A9	ØØ	58
12Ø1:8D	25	DØ	A9	Ø7	8D	26	DØ	75
1209:A9	ØF	8D	27	DØ	A9	Ø5	85	A6
1211:FE	A9	15	85	FF	A9	8ø	85	47
1219:FC	A9	3B	85	FD	ΑØ	ØØ	B1	ØA
1219:FE	DØ	18	E6	FE	DØ	Ø2	E6	9Ø
1221:FE 1229:FF	B1	FE	AA	A9	ØØ	91	FC	Bl
1229:FF 1231:E6	FC	DØ	Ø2	E6	FD	CA	DØ	D7
1231:E0 1239:F3	FØ	Ø8	91	FC	E6	FC	DØ	FB
	E6	FD	E6	FE	DØ	Ø2	E6	74
1241:02				4Ø	DØ	DØ	A9	A3
1249:FF	<b>A</b> 5	FC	C9	40	שע	שע	n)	AJ

1251:FE 8D 1C DØ A5 Ø1 29 FB1259:85 Ø1 ΑØ ØØ В9 ØØ DC 99 **B5** 1261:00 30 В9 ØØ DD 99 ØØ 31 4F 1269:C8 DØ Ø1 85 Fl **A5** Ø9 Ø4 78 1271:Ø1 AØ ØØ В9 11 13 99 ØØ El 1279:32 **C8** CØ 20 DØ F5 ΑØ ØØ **A2** 1281:98 99 ØØ **C8** 33 CØ Ø8 **B5** DØ 1289:F8 A9 Ø4 85 FF A9 **D8** 85 4B 1291:FD A9 ØØ 85 FE 85 FC A8 28 1299:A9 6Ø 91 FE Α9 Ø8 91 FC 5A 12A1:C8 DØ F5 **E6**  $\mathbf{F}\mathbf{F}$ E6 FD A5 **C8** 12A9:FF C9 Ø7 DØ EB A9 6Ø 99 8E Ø7 12B1:00 A9 Ø8 99 ØØ DB C8 9A 12B9:CØ CØ DØ Fl 2Ø 52 13 AØ В8 12C1:00 A9 FE 99 FA Ø7 A9 Ø2 13 Fl 12C9:99 29 DØ **C8** CØ Ø6 DØ 5 D 8D F8 12D1:A9 FF Ø7 8D F9 Ø7 75 12D9:AØ ØØ В9 31 13 C9 40 9Ø 69 12E1:Ø3 38 E9 40 99 CØ Ø7 A9 5E 12E9:03 99 CØ DB C8 2C 28 18 2B 12F1:10 06 C0 18 DØ E4 FØ Ø4 39 12F9:CØ 21 DØ DE A9 ØЗ 99 CØ 1C 13Ø1:DB C8 CØ 28 DØ F8 58 6Ø 5D 1309:60 42 4Ø 6Ø 6Ø 43 41 60 FØ 1311:00 00 00 00 ØØ Ø3 Ø3 Ø3 4C 1319:03 Ø3 ØB ØB 2B 2B 28 28 12 1321:00 00 00 ØØ ØØ CØ CØ CØ 8C 1329:CØ CØ ΕØ ΕØ E8 E8 28 28 6D 1331:50 4C 41 59 45 52 31 3A 6Ø 2Ø 2Ø 1339:20 20 20 2Ø 2Ø 2Ø 5F 1341:53 48 49 5Ø 53 3A 2Ø 2Ø 35 1349:20 50 4C 41 59 45 52 32 **E7** 1351:3A AØ ØØ A2 Ø4 BD Ø8 13 21 1359:99 7Ø Ø7 BD ØC 13 99 98 9D 1361:07 C8 CA D0 FØ CØ 28 DØ 4F 27 1369:EA 60 A9 00 8D 18 AØ 2C 1371:6E A2 1E A9 14 2Ø BB 14 82 1379:AD 27 18 ØA AA BD E7 Ø4 Ø4 1381:49 8Ø 9D E7 2Ø C8 Ø4 14 E4 1389:FØ 1E BD E7 Ø4 49 8Ø 9D C9 1391:E7 Ø4 98 18 6D 27 18 C9 43 1399:FF DØ Ø2 A9 ØØ C9 Ø3 DØ CC 13A1:02 A9 01 8D 27 18 DØ DØ 38 13A9:AD 27 18 18 69 Ø4 8D DB 47 13B1:17 69 Ø2 8D DD 17 69 Ø3 F7 13B9:8D DA 17 69 Ø1 8D D9 17 DF 13C1:A9 Ø2 CD 27 18 DØ Ø3 EE 62 13C9:D9 17 A9 FF 8D 28 18 AØ **B5** 13D1:19 A2 8C A9 14 20 BB 14 Ø6 13D9:AD 28 18 ØA AA E8 E8 BD ØD

13E1:2C	Ø5	49	8Ø	9D	2C	Ø5	2Ø	58
13E9:C8	14	FØ	23	18	6D	28	18	<b>A8</b>
13F1:BD	2C	Ø5	49	8Ø	9D	2C	Ø5	ØF
13F9:98	18	6D	28	18	C9	FE	DØ	59
1401:02	Α9	$\mathbf{F}\mathbf{F}$	C9	Ø1	DØ	Ø2	Α9	2A
1409:00	8D	28	18	4C	D9	13	ΑØ	AB
1411:15	A2	A5	Α9	14	2Ø	BB	14	68
1419:20	C8	14	DØ	FB	6Ø	C5	2Ø	2Ø
1421:C9	2Ø	CE	2Ø	3A	54	52	45	1F
1429:50	58	45	2ø	2C	45	54	41	9A
1431:49	44	45	4D	52	45	54	4E	2B
1439:49	20	2C	45	43	49	56	4F	23
1441:4E	20	11	ØD	2D	54	43	45	12
1449:4C	45	53	20	4 F	54	2Ø	4E	AF
1451:4F	54	54	55	42	20	44	4E	7F
1459:41	2Ø	4B	43	49	54	53	59	63
1459:41 1461:4F	4A	20	45	53	55	2Ø	11	5D
1461:4F	35	38	39	31	2Ø	21	45	91
	55	5Ø	4D	4F	C3	20	2C	ED
1471:54	22							
1479:D2	C5	CB	C5	C5	D3	20	D4	E4
1481:C1	C5	C8	2Ø	20	20	2Ø	2Ø	F8
1489:9B	11	93	ØE	32	2Ø	31	20	AB
1491:3A	53	52	45	59	41	4C	5Ø	Ø3
1499:20	46	4F	2Ø	52	45	42	4D	C8
14A1:55	4E	2Ø	11	ØD	4E	49	47	98
14A9:45	42	2Ø	4 F	54	2Ø	45	52	FD
14B1:49	46	2Ø	53	53	45	52	5Ø	ED
14B9:11	ØD	86	FΕ	85	$\mathbf{F}\mathbf{F}$	Вl	FE	FC
14C1:20	D2	$\mathbf{F}\mathbf{F}$	88	DØ	F8	6Ø	ΑD	10
14C9:00	DC	2D	Ø1	DC	29	1C	C9	6C
14D1:1C	DØ	F4	Α9	ØØ	85	A2	Α9	7A
14D9:1C	C5	<b>A2</b>	DØ	FC	AD	ØØ	DC	5 E
14E1:2D	Øl	DC	29	Ø4	DØ	ØЗ	ΑØ	19
14E9:FF	6Ø	ΑD	ØØ	DC	2D	Ø1	DC	5A
14F1:29	Ø8	DØ	Ø3	ΑØ	Ø1	6Ø	ΑD	72
14F9:00	DC	2D	Ø1	DC	29	1Ø	DØ	8B
15Ø1:DC	ΑØ	ØØ	6Ø	ØØ	Ø8	CØ	ØØ	69
1509:01	18	СØ	ØØ	Ø1	3F	СØ	ØØ	19
1511:01	3F	8Ø	ØØ	Ø1	3E	ØØ	Ø2	9E
1519:3C	ØØ	Ø2	3 C	ØØ	Ø2	3 C	ØØ	E5
1521:02	3E	ØØ	Ø2	3F	ØØ	Ø2	3F	39
1529:00	Ø2	3 F	ØØ	Ø2	3E	ØØ	Ø2	C6
1531:3E	ØØ	Ø2	3C	ØØ	Ø2	3C	ØØ	FE
1539:02	38	øø	Ø2	3Ø	øø	ø9	ØC	32
1541:00	Ø2	1C	ØØ	Ø2	3C	øø	Ø2	72
1549:3C	ØØ	Ø2	7C	ØØ	Ø2	7C	øø	9A
1551:02	FC	ØØ	ø2	FC	ØØ	ø2	FC	C4
1559:00	Ø2	7C	ØØ	Ø2	3 C	ØØ	Ø2	96
1561:3C	ØØ	ø2	3C	ØØ	Ø2	7C	øø	AE
1569:01	Ø1	FC	ØØ	Ø1	Ø3	FC	ØØ	Ø2
TOOA:MI	МI	rc	שש	ŊΙ	<i>D</i> 3		שע	UZ

1571:01 03 D8 00 Ø1 Ø3 ØØ 1579:EØ ØØ Ø2 F8 ØØ Ø2 7E Ø3 EB 1581:EØ 3F FF FC 7 F FF FF 3F F6 1589:FF FFØØ 37 FF FF FC FF 21 1591:FF FΕ 3 F FF FC Ø7 CØ 7E 67 1599:00 02 1 F ØØ Ø2 Ø7 ØØ 16 6A 15A1:Ø3 ØØ Ø2 Ø7 ØØ Ø2 ØF ØØ 24 15A9:02 ØF ØØ Ø2 3F ØØ Ø2 3F F5 15B1:8Ø ØØ Ø1 ØF ΕØ ØØ Ø1 Ø3 39 15B9:F8 ØØ Ø2 FF8Ø ØØ Ø1 3F E5 15C1:EØ ØØ Ø1 ØF ΕØ ØØ Øl Ø3 79 15C9:F8 ØØ Ø2 F8 ØØ Ø2 3C ØØ CØ 15D1:02 ØC ØØ 2Ø Ø3 FC ØØ Ø1 ØF 15D9:ØF FC ØØ Ø1 1 F FØ ØØ Ø1 98 15E1:1F CØ ΕØ 7F ØØ Ø1 F9 FC **D4** 15E9:00 Ø1 7F FØ ØØ Øl 7 F CØ 17 15F1:00 01 3F ØØ Ø2 3C ØØ Ø2 47 15F9:10 00 23 Ø8 ØØ Ø2 3C ØØ 91 1601:02 FC 00 Ø1 ØЗ FΕ ØØ Ø1 92 1609:0F FE ØØ Ø1 3 F 9F ØØ Ø1 Ø6 1611:FE Ø7 Ø3 F8 ØØ Ø1 ØF F8 89 1619:00 Ø1 3F FØ 3F ØØ Ø1 CØ BF 1621:00 2Ø ЗØ ØØ Ø2 3C ØØ Ø2 5 E 1629:1F ØØ Ø2 1 F CØ ØØ Ø1 Ø7 26 1631:FØ ØØ Ø1 Ø7 FC ØØ Øl 51 1639:FF ØØ Ø2 1 F CØ ØØ Ø1 Ø7 **A6** 1641:FØ ØØ Øl Ø1 FC ØØ Ø2 FC FE 1649:00 Ø2 FØ ØØ Ø2 FØ ØØ Ø2 E9 1651:EØ ØØ Ø2 CØ ØØ 28 13 28 FE 1659:00 01 28 28 ØØ Ø1 29 68 ØC 1661:00 Ø1 29 68 ØØ Ø1 Ø9 6Ø EF 1669:00 Ø1 Ø9 6Ø ØØ Ø1 Ø1 4Ø 43 1671:00 Ø1 Ø1 40 ØØ Ø1 Ø1 4Ø 48 1679:00 Ø1 Ø1 40 ØØ Ø1 Ø1 4Ø 5Ø 1681:00 20 Ø1 40 ØØ Ø1 Ø1 40 20 1689:00 Ø1 Ø1 40 ØØ Ø1 Ø1 6Ø 40 1691:00 Ø1 Ø1 40 ØØ Ø1 Ø9 98 6Ø 1699:00 Ø1 Ø9 6Ø ØØ Ø1 29 68 EB 16A1:00 Ø1 29 68 ØØ Ø1 28 28 36 16A9:00 01 28 28 ØØ 23 AA ØØ 7 F Ø1 16B1:02 AA 8Ø ØØ 15 55 ØØ ΑØ 16B9:01 15 55 ØØ Ø1 15 55 ØØ 5D 16C1:01 AA 80 ØØ 2E Ø1 AA ØØ ØA 16C9:AA ØØ Ø1 Ø2 AA ØØ Øl 55 38 16D1:54 ØØ Ø1 55 54 ØØ Ø1 55 97 Ø2 16D9:54 ØØ Øl AA ØØ Ø2 AA 74 16E1:00 2C 08 00 Ø2 ØA ØØ Ø2 54 16E9:06 8Ø ØØ Ø1 15 8Ø ØØ Ø1 F4 29 16Fl:A5 40 ØØ Ø1 5Ø ØØ Øl 9C 16F9:ØA 54 ØØ Ø2 15 00 02 05 12

## Chapter 2

17Ø1:ØØ	27	Ø5	øø	Ø2	15	øø	Ø1	FE
1701:00 1709:0A	54	ØØ	Ø1	29	5Ø	ØØ	Ø1	EC
1711:A5	40	ØØ	Ø1	15	8Ø	ØØ	Ø1	DD
1719:06	8Ø	ØØ	Ø1	ØA	ØØ	Ø2	Ø8	D6
1721:00	28	2Ø	ØØ	Ø2	ΑØ	ØØ	Ø1	FØ
1729:02	9Ø	ØØ	Ø1	Ø2	54	ØØ	Ø1	EE
1731:01	5A	ØØ	Ø1	Ø5	68	øø	Ø1	51
1739:15	AØ	ØØ	Øī	54	ØØ	Ø2	5ø	21
1741:00	27	5ø	ØØ	Ø2	54	ØØ	Ø2	A6
1749:15	ΑØ	ØØ	Ø1	Ø5	68	ØØ	Ø1	Ø5
1751:Ø1	5A	ØØ	Øī	Ø2	54	ØØ	Ø1	Ø9
1759:Ø2	90	ØØ	Ø2	ΑØ	ØØ	Ø2	2Ø	F5
1761:00	1A	Ø8	8ø	ØØ	Ø1	ØA	A8	DF
1769:00	Ø1	2B	EØ	ØØ	Ø1	ØB	ΕØ	46
1771:00	Ø1	ØВ	E8	ØØ	Ø1	2A	ΑØ	C8
1779:00	Ø1	Ø2	2Ø	ØØ	33	88	ØØ	Ø8
1781:01	Ø2	AA	ØØ	Ø1	Ø2	ΑE	ØØ	73
1789:01	Ø2	EE	8Ø	ØA	FF	ΑØ	ØA	3 A
1791 :FF	ΕØ	ØB	FE	<b>A8</b>	ØВ	$\mathbf{F}\mathbf{F}$	ΕØ	9B
1799:2A	FF	<b>A8</b>	2B	FF	ΕØ	2B	$\mathbf{FF}$	7 E
17A1:E8	ØВ	FF	ΕØ	2F	$\mathbf{F}\mathbf{F}$	ΑØ	2A	F9
17A9:FF	ΕØ	2F	FF	F8	2B	BB	ΕØ	C2
17B1:ØA	AA	<b>A8</b>	FF	Ø1	FE	Ø2	FD	AA
17B9:04	FΒ	Ø8	F7	1Ø	EF	2Ø	DF	C9
17Cl:40	BF	8Ø	7F	ØØ	ØØ	ØØ	ØØ	Ø8
17C9:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	F7
17D1:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	FF
17D9:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	Ø8
17E1:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	10
17E9:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	18
17F1:ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	2Ø
17F9:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	28
1801:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	31
1809:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	39
1811:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	41
1819:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	49
1821:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	51

# Program 5 **Laser Beam**

Load and run your copy of MLX, and enter the following two addresses to the displayed prompts:

Starting address: C000 Ending address: CDDF

After entering the game (in one session or several), be sure to save a copy to tape or disk.

#### Laser Beam

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
CØØØ:A9 Ø4 8D B5 Ø2 2Ø 3A C5
                              2F
C008:20 CC C4 A9 00 8D 15 D0
                              31
CØ1Ø:A9 93 2Ø D2 FF A9 ØØ 8D BØ
CØ18:21 DØ 8D 2Ø DØ A9 2E 8D 29
CØ2Ø:AØ CE 85 ØA 2Ø CA CC A2
CØ28:Ø9 AØ 11
              18 20 FØ FF A9 68
CØ3Ø:DD AØ CC
             20 1E AB A9 6D C4
CØ38:8D AØ CE 85 ØA 2Ø
                       CA CC ØE
CØ4Ø:A2 ØC AØ
              12 18 20 F0 FF 6E
CØ48:A9 E9 AØ CC
                 20 1E AB A2
                              6D
CØ50:0B A5 A2 C5 A2 FØ
                       FC CA ØF
CØ58:DØ F7 AD B5 Ø2 Ø9 3Ø 8D 73
CØ60:70 Ø6 AD Ø0 DC 4A BØ ØA CC
CØ68:AE B5 Ø2 EØ Ø9 FØ Ø3 EE FD
CØ7Ø:B5 Ø2 4A BØ Ø8 AE B5 Ø2 ØA
CØ78:FØ F8 CE B5 Ø2 4A 4A 4A
CØ80:BØ CD AD B5 Ø2 29
                       ØF 8D 3F
CØ88:B5 Ø2 A9 Ø3 8D B3 Ø2 A9 B3
CØ9Ø:ØØ 8D B9 Ø2 8D BA Ø2 A9 D1
CØ98:ØA 38 ED B5 Ø2 ØA 85 4F D8
CØAØ:85 4E A9 Ø7 8D B2
                           20 79
                       Ø2
CØA8:E2 CA 2Ø 19 C7
                    2Ø
                       CC
                          C4
                              Ø1
CØBØ:2Ø 46 C3 A9 14 8D B7
                          Ø2 2F
CØB8:20 7B C7
              AC B3
                       C8 A9
                    Ø2
                              CD
CØCØ:2Ø 99 DF Ø7 88 A9
                       28 99 F9
CØC8:DF Ø7 A9 Ø7 99 DF DB 88 2E
                    A5 A2 C5 26
CØDØ:DØ F3 2Ø A9
                 C5
CØD8:A2 FØ FC AD 1E DØ
                       AD 1F 11
CØEØ:DØ
        2Ø A9
              C5 C6 41
                       DØ 15 56
CØE8:A5
       42 85
              41
                 2Ø E7
                        C5
                          2Ø DE
CØFØ:85 CC 2Ø 45 CD A9
                       ØØ 8D 63
```

CØF8:B4	Ø2	2Ø	48	Cl	C6	4E	DØ	74
C100:07	<b>A</b> 5	4 F	85	4E	2Ø	C2	C3	EE
C1Ø8:EA	2Ø	1 F	Cl	2Ø	5 F	СВ	2Ø	3 F
C110:37	CC	AD	8D	Ø2	FØ	CA	AD	Ø8
C118:8D	Ø2	DØ	FB	4C	El	CØ	A2	CA
C120:02	AD	1F	DØ	4A	4A	9ø	1A	B7
C128:48	BD	26	DØ	29	ØF	c9	Ø1	2B
C130:FØ	ØF	A9	Ø1	9D	26	DØ	CA	27
C138:E4	A7	DØ	ø4	A9	18	85	A9	D4
C140:E8	68	E8	EØ	Ø9	DØ	DE	6Ø	27
C148:A5	ØA	DØ	Ø3	4C	16	C2	AD	59
C150:B4	Ø2	DØ	Ø8	20	EC	C6	9Ø	1C
C158:03	4C	1A	C2	A5	53	DØ	2D	29
C150:03	ΑØ	CE	BD	ØØ	CF	85	AA	ØE
C168:85	FB	BD	8Ø	CF	85	AB	85	DE
			CE	85	54	4A	90	71
C170:FC	BD	ØØ						37
C178:08	A9	4Ø	85	95	A9	24	DØ	
C180:06	A9	42	85	95	A9	16	85	17
C188:93	85	94	85	53	A5	54	C9	C5
C190:23	BØ	17	C9	21	DØ	Ø4	A9	4F
C198:Ø1	DØ	Ø2	A9	28	18	65	AA	C2
C1 AØ:85	AA	A5	AB	69	ØØ	85	AB	Ø3
C1 A8 : DØ	19	C9	24	FØ	Ø4	A9	Ø1	42
ClBØ:DØ	Ø2	A9	28	85	1Ø	A5	AA	37
C1 B8:38	E5	1Ø	85	AA	A5	AB	E9	59
C1 CØ:00	85	AB	A5	95	ΑØ	ØØ	91	36
C1 C8 : AA	<b>A</b> 5	AA	18	69	ØØ	85	FD	36
C1 DØ: A5	AB	69	D4	85	FE	A9	ØA	12
C1 D8 : AØ	ØØ	91	FD	Α9	8Ø	8D	ØВ	34
C1 EØ: D4	Α9	Ø8	8D	ØC	D4	Α5	93	A5
C1E8:18	69	ØA	ØA	8D	Ø8	D4	Α9	94
C1FØ:81	8D	ØВ	D4	C6	93	DØ	1 E	8B
C1 F8:A5	95	C9	2Ø	FØ	12	Α9	2Ø	33
C2ØØ:85	95	<b>A</b> 5	FB	85	AΑ	<b>A</b> 5	FC	41
C2Ø8:85	AΒ	Α5	94	85	93	DØ	Ø6	5 B
C210:A9	ØØ	85	ØA	85	53	6Ø	4C	42
C218:D4	C2	Α9	ØØ	85	ØA	А6	А6	36
C220:BD	96	ØЗ	C9	Ø2	9Ø	FØ	AD	Ø9
C228:5Ø	ØЗ	FØ	EΒ	ΑD	3C	ØЗ	C9	Al
C23Ø:37	DØ	E4	ΑD	46	Ø3	C9	D6	<b>A</b> 5
C238:9Ø	DD	8A	48	2Ø	17	C3	68	ΑØ
C240:AA	Α9	1 A	85	Α9	86	1Ø	A2	4B
C248:00	ΑØ	Ø6	В9	28	DØ	29	ØF	38
C25Ø:C9	Ø1	DØ	Ø1	E8	88	1Ø	F3	A2
C258:BD	32	C5	18	6D	В9	Ø2	8D	67
C260:B9	Ø2	AD	BA	Ø2	69	ØØ	8D	E7
C268:BA	Ø2	2Ø	78	CD	<b>A6</b>	10	Α9	2A
C270:FF	9 D	46	Ø3	CE	В2	Ø2	DØ	6C
C278:5Ø	A9	ØØ	8D	15	DØ	A9	93	3 C
C28Ø:2Ø	D2	FF	A2	ØA	ΑØ	ØF	18	FD
				_				

C288:20 FØ FF 20 D5 C2 A9 20 C290:A0 CD 2Ø 1E AB AD B7 Ø2 45 C298:ØA 85 10 ØA ØA 18 65 1Ø **B2** 2Ø C2AØ:AA 48 A9 ØØ CD BD 68 DE C2A8:18 6D B9 Ø2 8D В9 Ø2 AD F1 C2BØ:BA Ø2 69 ØØ 8D BA Ø2 Α9 46 C2B8:00 85 A2 78 **A2 A5** C9 DØ 4C C2CØ:FA 68 68 EE B5 Ø2 4C 97 BF 23 C3 Α9 Ø1 7A C2 C8 : CØ 2Ø 9D 96 C2DØ:03 2Ø FF C2 6Ø Α9 14 8D 6B C2D8:04 D4 8D 0B D4 A9 ØA 8D **E6** C2E0:05 D4 8D 0C D4 AD B5 02 5B C2E8:ØA 18 69 Ø5 8D Ø1 D4 A9 BA C2FØ:23 8D Ø8 D4 A9 11 8D Ø4 6A C2F8:D4 A9 15 8D ØB D4 6Ø E6 22 C7 C3ØØ:A8 A6 **A8** BD F9 86 A7 1A DØ AØ Ø7 **B9** F9 C7 5D C3Ø8:8D 2Ø C310:99 27 DØ 88 1Ø F7 6Ø A2 94 C318:18 AØ Ø5 8A 2Ø **A5** CC CA 19 C320:D0 F7 6Ø A9 14 8D ØB D4 76 18 69 Ø4 C328:AD B2 Ø2 8D Ø1 6C ØA ØA ØA ØA C330:D4 AD В3 Ø2 BA C338:8D Ø8 D4 A9 ØC 8D ØC D4 41 C340:A9 15 8D ØB D4 6Ø EE AØ EΑ CE C9 7A DØ 11 8E C348:CE AD AØ C350:A9 ØØ 8D AØ CE FØ ØA CE 85 Α9 79 C358:AØ CE 1Ø Ø5 8D AØ 25 C360:CE AD AØ CE **A8** 2Ø 6F C3 24 C368:B9 ØØ CE 20 9C C3 60 AD C37Ø:9B C3 C9 19 BØ Ø5 EE 9B 94 Ø5 Ø5 Α9 C378:C3 DØ 8D 9B C3 AA C38Ø:A9 14 8D ØB D4 Α9 Ø7 8D 2D C388:01 D4 AD 9B C3 8D Ø8 **D4** 6E C39Ø:A9 26 8D ØC D4 **A9** 15 8D ED C398:ØB D4 6Ø Ø5 48 AD ΑØ CE 40 CF 85 Ø4 В9 C3AØ:A8 B9 ØØ 8Ø 18 C3A8:CF 85 Ø5 68 ΑØ ØØ 91 Ø4 CC C3BØ:A5 Ø4 18 69 ØØ 85 Ø4 **A5** 69 C3B8:05 69 D4 85 Ø5 A9 Ø7 91 7E C3C0:04 60 A2 Ø7 BD 96 ØЗ FØ 66 C3C8:03 4C 83 C4 BD 46 ØЗ C9 78 9F C3DØ:37 DØ Ø5 FE 46 Ø3 DØ Ø7 DØ 11 DE 46 Ø3 3 A C3D8:C9 D7 BD C3E0:64 Ø3 49 Ø1 9D 64 Ø3 2Ø 39 C3E8:8A C4 2Ø В7 C4 BD 3C Ø3 FE 37 C3FØ:C9 DØ ØA BD 5Ø Ø3 DØ EB C3F8:05 FE 3C ØЗ DØ ØF BD 3C F4 C4ØØ:03 C9 37 DØ 16 BD 5Ø Ø3 BC 3 C C4Ø8:FØ 11 DE ØЗ BD 5A Ø3 **B4** C410:49 Ø1 9D 5A Ø3 2Ø 8A C4 4A

C418:20	В7	C4	BD	5A	ØЗ	DØ	1 D	Bl
C420:BD	82	ØЗ	18	7D	6E	ØЗ	9D	54
C428:82	ØЗ	BD	3 C	Ø3	69	ØØ	9D	8A
C430:3C	ØЗ	BD	5Ø	Ø3	69	ØØ	9D	ВØ
C438:5Ø	Ø3	4C	57	C4	BD	82	Ø3	CE
C440:38	FD	6 E	Ø3	9D	82	Ø3	BD	1E
C448:3C	Ø3	E9	ØØ	9D	3 C	Ø3	BD	8F
C450:50	Ø3	E9	ØØ	9D	5Ø	Ø3	BD	Fl
C458:64	Ø3	DØ	15	BD	8C	Ø3	18	7E
C458:04	78	Ø3	9D	8C	Ø3	BD	46	33
C468:03	69	ØØ	9D	46	Ø3	4C	83	Ø2
C470:C4	BD	8C	ØЗ	38	FD	78	Ø3	3B
C478:9D	8C	Ø3	BD	46	Ø3	E9	ØØ	42
C480:9D	46	ØЗ	CA	FØ	Ø3	4C	C4	68
C488:C3	6Ø	2Ø	Α7	C4	18	7 D	6E	7 A
C490:03	C9	64	9Ø	Ø3	9D	6E	ØЗ	12
C498:20	A7	C4	18	7 D	78	ØЗ	C9	D3
C4AØ:96	9Ø	ØЗ	9D	78	Ø3	6Ø	AD	12
C4A8:1B	D4	29	1 F	AC	18	D4	1Ø	97
C4BØ:05	49	FF	18	69	Ø1	6Ø	A9	4A
C4B8:80	8D	Ø4	D4	A9	40	8D	Ø5	22
C4CØ:D4	A9	14	8D	Ø1	D4	A9	81	AA
C4 C8 : 8D	Ø4	D4	6Ø	20	54	CC	A9	5Ø
C4D0:00	85	ØC	85	ØA	85	53	A9	4C
C4D8:09	85	40	8D	AA	Ø2	A9	8ø	5A
C4EØ:8D	ØF	D4	8D	12	D4	A9	Ø8	A7
C4E8:85	41	85	42	A9	Ø3	8D	B8	87
C4FØ:02	A9	Ø7	8D	A7	Ø2	8D	A8	A8
C4F8:02	ΑØ	Ø7	20	2A	C5	99	6E	98
	-	2A	C5	2A 99	78	Ø3		19
C500:03	2Ø D4	2A 29	Ø1	99	5A	Ø3	AD	75
C5Ø8:1B						Ø3	AD	75 8Ø
C510:1B	D4	29	Ø1	99	64		88	
C518:DØ	E1	A9	Ø9	85	A4	A9	ØØ	5C
C520:85	A8	2Ø	FF	C2	A9	Ø1	85	ΕØ
C528:3F	6Ø	AD	1B	D4	C9	96	9Ø	5 E
C530:F9	6Ø	ØØ	Ø5	ØA	14	28	5Ø	62
C538:78	ΑØ	A2	FF	A9	Ø3	85	Ø2	E2
C540:A9	Ø4	85	Ø3	A9	22	2Ø	9A	33
C548:C5	E6	Ø2	A5	Ø2	C9	28	DØ	63
C55Ø:F3	С6	Ø2	A9	23	2Ø	9A	C5	F6
C558:A5	Ø2	18	69	28	85	Ø2	<b>A</b> 5	Dl
C560:03	69	ØØ	85	Ø3	Α5	Ø2	C9	9C
C568:E7	DØ	E8	А9	BF	85	Ø2	Α9	95
C57Ø:24	2Ø	9A	C5	C6	Ø2	Α5	Ø2	51
C578:C9	9A	DØ	F3	Е6	Ø2	Α9	21	9C
C580:20	9A	C5	<b>A</b> 5	Ø2	38	E9	28	C2
C588:85	Ø2	Α5	Ø3	E9	ØØ	85	Ø3	99
C590:C9	Ø3	DØ	EΑ	Α9	14	8D	ΑØ	E3
C598:CE	6Ø	E8	9D	ØØ	CE	Α5	Ø2	23
C5AØ:9D	ØØ	CF	Α5	Ø3	9D	8Ø	CF	ΑE

C5A8:60 A9 00 85 10 A2 07 AØ EØ C5BØ:ØE BD 96 Ø3 C9 Ø2 DØ 12 BF C5 B8: AD 3C Ø3 9D 3C ØЗ AD 46 F3 C5CØ:Ø3 9D 46 Ø3 AD 5Ø Ø3 9D 8Ø C5 C8:5Ø ØЗ BD 50 03 4A 26 1Ø 97 C5DØ:BD 3C Ø3 99 ØØ DØ BD 46 49 C5 D8: Ø3 99 Ø1 DØ 88 88 CA 1Ø C5 EØ: DØ **A5** 1Ø 8D 10 DØ 6Ø A9 C5E8:00 85 Ø6 AØ ØØ **A5** 53 FØ CE ØØ DC 4A BØ C5FØ:01 6Ø AD ØF 4B C5F8:AE 46 Ø3 EØ 37 FØ Ø8 CE 38 C600:46 03 A2 Ø1 86 Ø6 **C8** 4A FD C6Ø8:BØ ØF AE 46 Ø3 EØ D7 FØ 28 C610:08 EE 46 Ø3 A2 Ø2 86 Ø6 86 C618:C8 4A BØ 3B 2Ø EC C6 ВØ 59 C620:0F D0 34 48 A9 2Ø 2Ø 9C 1F C628:C3 2Ø 57 C3 68 4C 57 C6 BØ C630:AE 5Ø ØЗ DØ Ø7 ΑE 3C Ø3 Ø5 C638:EØ 19 FØ 1B 48 AD 3C Ø3 CØ 8D 3C Ø3 AD 5Ø C640:38 E9 Ø1 F6 C648:03 E9 ØØ 8D 5Ø ØЗ СØ ØØ BA C650:D0 04 A9 03 85 Ø6 68 4A ØC C658:BØ 3B 2Ø EC C6 ØF DØ C7 ВØ C660:34 48 A9 2Ø 2Ø 9C C3 2Ø 6C C668:46 C3 68 4C 95 C6 AE 5Ø C670:03 F0 Ø7 AE 3C Ø3 ΕØ 37 6E C678:FØ 1B 48 AD 3C Ø3 18 69 ВØ C680:01 8D 3C 03 AD 5Ø ØЗ 69 C7 C688:00 8D 50 03 C0 00 DØ Ø4 5F C690:A9 04 85 06 68 4A BØ Ø4 D6 C698:A9 Ø1 85 ØA A5 Ø6 DØ ØA 7D C6AØ:A6 3F BD 10 C7 8D F8 Ø7 77 C6A8:DØ 3F C6 4Ø DØ 3Ø A9 Ø9 EE C6BØ:85 4Ø A5 ØC 49 Ø1 85 ØC EB 8D Ø4 D4 A5 CD C6B8:A9 40 Ø6 34 C6CØ:83 CC FØ Ø8 8D 83 CC A9 9F C6C8:00 8D 84 CC EE 84 CC AD E7 18 69 Ø5 C6DØ:84 CC ØA 8D Ø1 C6D8:D4 A9 41 8D Ø4 D4 A5 ØC Ø7 C6EØ:A6 Ø6 18 7D 14 C7 8D F8 F1 C6 E8:07 86 3F 6Ø AE 3C Ø3 ΕØ D6 C6FØ:19 DØ 1C AE 46 Ø3 ΕØ 37 E4 5Ø Ø3 DØ CE 59 C6 F8: DØ 15 ΑE 10 C7ØØ:A7 Ø2 DØ Ø8 AE A8 Ø2 8E 29 18 38 7D C7Ø8:A7 Ø2 A2 ØØ 9Ø Ø1 D3 D5 CD DØ C710:60 CC CF D2 94 C718: D4 A9 93 2Ø D2 FF Α9 ØØ DA C720:8D 21 DØ Α9 ØB 8D 2Ø DØ 13 85 1Ø A9 69 ΑØ C7 40 C728:A9 18 C730:20 1E AB C6 10 D0 F5 A0 89

C738:25	98	99	$\mathbf{BF}$	Ø7	Α9	Øl	99	2A
C740:BF	DB	C8	CØ	28	DØ	F2	A2	D8
C748:13	Α9	ΑØ	9D	СØ	Ø7	Α9	ØA	39
C750:9D	CØ	DB	CA	1Ø	F3	A2	18	В4
C758:AØ	14	18	2Ø	FØ	FF	A9	7Ø	8D
C76Ø:AØ	C7	20	1E	AB	2Ø	78	CD	B4
C768:6Ø	1 E	12	2Ø	2Ø	2Ø	ØD	øø	8F
C770:9F	12	53	43	4F	52	45	92	D3
C778:20	3Ø	ØØ	ΑØ	ØØ	В9	22	C8	22
C780:99	ØØ	33	В9	22	C9	99	ØØ	4A
C788:34	В9	22	CA	99	ØØ	35	88	51
C790:D0	EΒ	Α9	$\mathbf{FF}$	8D	15	DØ	Α9	C4
C798:07	8A	38	ED	В2	Ø2	85	10	74
C7A0:B9	F9	C7	99	27	DØ	В9	Ø1	ØF
C7 A8 : C8	99	F8	Ø7	AD	Øl	C8	8D	23
C7BØ:F8	Ø7	В9	Ø9	C8	99	3C	ØЗ	6E
C7 B8 : AD	Ø9	C8	8D	3C	ØЗ	В9	11	C5
C7CØ:C8	99	46	Ø3	AD	11	C8	8D	E4
C7 C8:46	Ø3	B9	19	C8	99	5Ø	Ø3	55
C7 DØ : A9	ØØ	8D	5ø	Ø3	A9	ØØ	99	44
C7D8:96	Ø3	8D	96	Ø3	88	C4	10	63
C7E0:D0	BE	A9	FF	8D	10	DØ	A9	E5
C7E8:07	8D	25	DØ	A9	Ø6	8D	26	В7
C7 FØ:DØ	A9	1 A	85	A9	2Ø	17	C3	ΑE
C7F8:6Ø	Ø2	Ø2	ØЗ	Ø4	ØD	Ø6	Ø7	11
C800:0B	CC	D6	D6	D6	D6	D6	D6	29
C8Ø8: D6	19	64	64	64	64	64	64	$\mathbf{F}\mathbf{F}$
C810:64	64	64	64	64	64	64	64	Al
C818:64	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	DB
C820:00	6Ø	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	C9
C828:00	3 C	ØØ	ØØ	FF	ØØ	ØØ	FF	C8
C830:00	ØØ	FF	ØØ	ØØ	3C	ØØ	Ø2	B4
C8 38 : FF	8ø	Ø2	FF	8Ø	Ø2	FF	8Ø	В6
C840:00	FF	8Ø	øø	55	8Ø	ØØ	FF	8E
C848:00	øø	FF	ØØ	ØØ	FF	ØØ	ØØ	D9
C850:FF	ØØ	ØØ	FF	ØØ	ØØ	64	ØØ	AA
C858:00	AA	ØØ	ØØ	AA	ØØ	ØØ	AA	94
C860:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	F1
C868:00	3 C	ØØ	ØØ	FF	ØØ	ØØ	FF	Ø9
C87Ø:ØØ	ØØ	FF	ØØ	ØØ	3C	ØØ	Ø2	F4
C878:FF	8Ø	Ø2	FF	8Ø	Ø2	FF	8Ø	F6
C880:00	FF	8Ø	ØØ	55	8Ø	ØØ	$\mathbf{F}\mathbf{F}$	CE
C888:00	ØØ	FF	ØØ	ØØ	$\mathbf{F}\mathbf{F}$	ØØ	ØØ	1 A
C890:AF	ØØ	ØØ	ΑF	ØØ	ØØ	ØA	ØØ	Ø9
C898:00	ØA	ØØ	ØØ	ØA	ØØ	ØØ	ØA	Ø7
C8AØ:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	32
C8 A8 : ØØ	3 C	ØØ	ØØ	FF	ØØ	ØØ	FF	49
C8BØ:ØØ	ØØ	FF	ØØ	ØØ	3C	ØØ	Ø2	35
C8 B8 : FF	8Ø	Ø2	FF	8Ø	Ø2	FF	8Ø	37
C8CØ:02	FF	øø	Ø2	55	ØØ	øø	FF	1E
					-2	~~		

C8C8:00 00 FF ØØ ØØ FF ØØ ØØ 5 A ØØ ØØ ØØ ΑØ ØØ DØ C8DØ:FA ØØ FA ØØ 38 C8 D8:00 ΑØ ØØ ØØ ΑØ ØØ ΑØ 72 C8EØ:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ C8 E8:00 3C ØØ ØØ FF ØØ ØØ EB 75 ØØ FF ØØ ØØ 3C ØØ Ø2 75 C8F0:00 73 Ø2 FF 8Ø Ø1 FF 8Ø C8F8:FF 8Ø C900:01 FF 8Ø ØØ 55 8Ø ØØ FF DØ ØØ ØØ DB C9Ø8:8Ø ØØ FF ØØ ØØ FF C910:FF FF ØØ ØØ AA ØØ F8 ØØ ØØ C918:00 AA ØØ ØØ AΑ ØØ ØØ AΑ 56 ØØ ØØ ØØ C920:00 ØØ ØØ ØØ ØØ **B3** C928:00 3C ØØ ØØ FF ØØ ØØ EB **B6** FF ØØ ØØ 3C ØØ Ø2 В6 C930:00 ØØ FF 80 C938:FF 8Ø Ø2 FF 8Ø Ø1 **B4** 55 ØØ FF 11 C940:01 FF 8Ø ØØ 8Ø FFØØ FFØØ ØØ DB C948:00 ØØ ØØ C950:FF ØØ ØØ AF ØØ ØØ ØA ØØ F2 C958:00 ØA ØØ ØØ ØA ØØ ØØ ØA **C8** ØØ F3 C96Ø:ØØ ØØ ØØ ØØ ØØ ØØ ØØ C968:00 3C ØØ ØØ FFØØ ØØ EB F6 ØØ FFØØ ØØ 3C ØØ Ø2 F6 C97Ø:ØØ 8Ø Ø2 FF8Ø F8 C978:FF 8Ø Ø2 FF Ø1 55 ØØ Ø1 FF El C980:02 FF 8Ø ØØ FF ØØ ØØ FF ØØ ØØ 1C C988:00 15 C990:FF ØØ ØØ FA ØØ ØØ ΑØ ØØ ØØ ØØ ΑØ F9 C998:00 ΑØ ØØ ØØ ΑØ ØØ ØØ ØØ ØØ 34 C9 AØ:00 ØØ ØØ ØØ BC FØ ØØ ØØ FC ØØ ØØ 1 D C9 A8:00 3C ØØ ØØ **D4** ØØ FC ØØ ØØ C9BØ:00 13 FE 80 C9B8:FB ØØ 14 FA ØØ Ø6 ØØ ØØ F8 10 8Ø ØØ 56 C9CØ:ØØ FF CF ØØ ØF C2 C9 C8 : ØØ ØØ FF ØØ ØЗ Ø8 Ø3 **A8** 2D C9DØ:ØF ØØ ØC ØF ØØ 28 ØØ 62 Ø8 Ø8 ØØ Ø8 C9 D8: Ø8 ØØ ØØ ØØ ØØ 74 C9EØ:00 FF ØØ ØØ ØØ FC ØØ ØØ BC 5D C9 E8:00 FØ ØØ ØØ 3C ØØ ØØ 15 ØØ FC ØØ ØØ C9F0:00 Ø2 AB ØØ Α9 C9F8:FB ØØ ØØ FBØØ 35 FF ØØ ØØ 54 ØØ ØØ FC CAØØ:ØØ ØØ ØØ 3C ØØ ØØ 2E CAØ8:00 00 FC ØØ ØØ 28 ØØ D7 CA10:3C ØØ ØØ 3C ØØ ØØ 28 ØØ ØØ **8**A Αl 28 CA18:00 ØØ ØØ ØØ **B**5 CA2Ø:ØØ FF ØØ ØØ ØØ ØØ 3 F ØØ ØØ 3E **B9** CA28:00 ØF ØØ ØØ ØØ 9E CA3Ø:ØØ ØØ 3F ØØ ØØ 3C C9 ØØ AF 2Ø Ø2 BF 8Ø ØØ CA38:EF 95 ØØ ØØ 27 AA FFØØ ØØ CA40:02 CØ ØØ ED CA48:00 ØØ F5 ØØ ØØ F3 ØØ FØ 3Ø 2A CØ 2Ø 75 FØ CA5Ø:FØ

CA58:20	ØØ	2Ø	2Ø	ØØ	2Ø	ØØ	ØØ	84
CA60:28	$\mathbf{F}\mathbf{F}$	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØA
CA68:00	ØF	ØØ	ØØ	3 F	ØØ	ØØ	3E	F9
CA70:00	ØØ	3 F	ØØ	ØØ	3C	ØØ	ØØ	DE
CA78:EF	ØØ	ØØ	EF	14	ØØ	ΕA	9Ø	ØC
CA80:00	FF	ØØ	ØØ	15	ØØ	ØØ	3F	FD
CA88:00	ØØ	3F	ØØ	ØØ	3 C	ØØ	ØØ	F6
CA90:3C	ØØ	ØØ	3C	ØØ	ØØ	28	ØØ	58
CA98:00	28	ØØ	ØØ	28	ØØ	ØØ	2A	А3
CAAØ:ØØ	FF	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	36
CAA8:00	ØØ	ØØ	ØØ	AA	ØØ	Ø2	AA	42
CABØ:8Ø	ØA	5A	ΑØ	Ø9	5A	ΑØ	29	7A
CAB8:6A	<b>A8</b>	29	AA	<b>A8</b>	2A	AA	<b>A8</b>	69
CACØ:2A	AA	<b>A8</b>	2A	AA	<b>8</b> A	2A	AA	C4
CAC8:A8	2A	AA	<b>A8</b>	ØA	AA	ΑØ	ØA	63
CADØ:AA	AØ	Ø2	AA	8Ø	ØØ	AA	ØØ	28
CAD8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	6E
CAEØ:ØØ	ØØ	78	A9	33	85	Ø1	A9	7B
CAE8:00	85	Ø2	A9	38	85	Ø3	A9	42
CAFØ:ØØ	85	Ø4	A9	DØ	85	Ø5	A2	4C
CAF8:08	ΑØ	ØØ	Bl	Ø4	91	Ø2	88	C8
CBØØ:DØ	F9	E6	Ø5	E6	Ø3	CA	DØ	55
CBØ8:F2	A9	37	85	Ø1	A9	1 E	8D	3B
CB10:18	DØ	ΑØ	3F	B9	1F	СВ	99	6B
CB18:08	39	88	1Ø	F7	58	6Ø	8ø	76
CB2Ø:CØ	D8	E7	E7	D8	CØ	8Ø	FF	94
CB28:7E	18	24	24	18	18	18	Ø1	1E
CB30:03	18	E7	E7	18	ø3	Ø1	18	8A
CB38:18	18	24	24	18	7E	FF	7F	E2
CB4Ø:3F	2A	1 F	15	ØF	ØA	Ø7	FF	E5
CB48:FF	A5	FF	52	FF	A5	FF	F8	FD
CB50:FØ	5ø	ΕØ	ΑØ	CØ	40	8Ø	1C	BE
CB58:14	1D	3 F	5C	3C	14	36	AD	3 B
CB6Ø:1E	DØ	29	Ø1	FØ	65	A2	Ø7	D9
CB68:A9	FF	85	1ø	A9	Ø9	85	A4	A7
CB7Ø:BD	96	Ø3	DØ	39	AD	5Ø	Ø3	1E
CB78:DD	5ø	Ø3	DØ	31	AD	3C	Ø3	3C
CB8Ø:38	FD	3C	Ø3	10	Ø5	49	FF	92
CB88:18	69	Ø1	C9	ØF	BØ	1 F	85	42
CB90:A5	AD	46	Ø3	38	FD	46	Ø3	A8
CB98:10	Ø5	49	FF	18	69	Ø1	C9	D4
CBAØ:0F	BØ	ØB	18			C5		
CBA8:BØ	Ø4			65	A5		10	2C
CBBØ:BF	A6	85 A4	1Ø EØ	86 Ø9	A4 FØ	CA	DØ	78 52
CBB8:02	9 D	96	Ø3	86 86		14	A9	
CBCØ:DØ	ØA	BD	27	DØ	A6 29	E4 ØF	A7 C9	FB 8Ø
CBC8:01	DØ	Ø1	27 6Ø	A9	Ø5		10	вю В7
CBC8:01 CBDØ:A9	14	8D	ØВ	D4		85 ØØ		
CBD8: 49	D4	A9	ØA		A9 ØC		8D	7F
CBEØ:15	8D	ØB	DA D4	8D A2	ØØ	D4	A9	6F
CDED:ID	oυ	מש	D.A	<b>n</b> 2	שש	AC	18	9 E

CBE8: D4 A9 ØØ 99 ØØ 33 99 ØØ CBFØ:34 8E Ø8 D4 99 8Ø 34 2Ø EB CBF8:31 CC CA DØ E9 C6 1Ø 1 E DØ 68 2Ø CA CC CE CCØØ:E5 68 9Ø В3 CCØ8:02 FØ Ø3 4C **B8** CØ A9 ØØ 2Ø CC10:8D 15 DØ A2 18 ØB AØ ØF 2Ø 8D EØ CC18:20 F0 FF A9 Ø7 98 CC20:A9 ØF ΑØ  $^{\circ}$ 2Ø 1E AB AD Cl CC28:00 DC 29 10 DØ F9 4C Ø5 2B CC3Ø:CØ AØ 64 88 DØ FD 6Ø **A5** 4C CC38:A9 ØA ØA ØA 18 69 17 CD 6D CC40:46 03 B0 0F AD 5Ø Ø3 DØ 4A CC48:0A AD 3C 03 C9 2A BØ Ø3 65 CC50:4C CC CB 60 A2 ØØ 8A 9D 8A CC58:00 D4 E8 E0 1A D0 F8 A9 Ø2 CC60:14 8D 01 D4 A9 42 8D Ø5 **4B** CC68:D4 A9 Ø8 8D Ø3 D4 A9 Ø5 74 CC70:8D ØC D4 A9 Ø5 8D ØA D4 5Ø CC78:A9 FF 8D ØF **D4** Α9 ØF 8D 82 CC80:18 D4 60 00 ØØ CE AA Ø2 F9 CC88: DØ 1A A9 32 8D AA Ø2 **A5** 2A CC9Ø:A9 C9 la FØ ØF C6 Α9 1Ø BA CC98:06 A9 00 85 A9 FØ Ø5 AØ В3 CCAØ:07 20 A5 CC 6Ø 84 10 A8 25 CCA8:A9 D8 85 Ø2 Α9 D7 85 ØЗ **D8** CCBØ:A5 Ø2 18 69 28 85 Ø2 A5 38 CCB8:03 69 00 85 Ø3 88 DØ FØ 53 CCCØ:A5 10 A0 Ø2 91 Ø2 88 1Ø 1B CCC8:FB 6Ø A9 Ø1 8D B4 Ø2 2Ø 21 CCDØ:48 Cl A5 A2 C5 A2 FØ FC 75 ØA DØ EE 6Ø 9E 92 4C BF CCD8:A5 2Ø 53 2Ø 45 20 52 BC CCEØ:20 41 CCE8:00 42 20 45 20 41 20 4D FE 11 9D 9D 9D 89 CCFØ:96 11 11 CCF8:9D 9D 9D 4C 45 56 45 4C 9B CDØØ:20 20 11 11 11 9D 9D 9D BE CDØ8:9D 9D 9D 9D 9D 9D 9D 12 18 CD10:9F 48 49 54 2Ø 46 49 52 FA 42 55 54 54 4F 4E ØØ 53 CD18:45 2Ø 43 CD20:9E 4C 45 56 45 4C ØВ CD28:4F 4D 5Ø 4C 45 54 45 44 D7 9D 9D 9D 9D 9D 62 11 CD3Ø:11 9D 9D 9D 42 4F CE CD38:9D 9D 9D CD40:4E 55 53 20 00 AD B7 Ø2 EC 28 CD48:FØ 2D CE B6 Ø2 DØ CE 5F CD50:B8 02 D0 23 A2 Ø3 8E В8 ØC CD58:02 CE B7 Ø2 AD В7 Ø2 DØ ΕØ CD60:10 A9 85 A9 A9 Ø1 **A2** 62 18 CD68:06 9D 28 DØ CA 10 FA A9 **B6** CD70:00 AA A9 20 9D C0 07 6Ø 4C

CD78:A2 18 AØ 1A 18 2Ø FØ FF 44 CD80:AD BA 02 C9 FF F0 07 AE FE CD88:B9 Ø2 2Ø CD BD 6Ø A9 98 BD CD90:A0 CD 20 1E AB 68 68 60 06 CD98:93 11 11 11 20 43 4F 4E 7Ø CDAØ:47 52 41 54 55 4C 41 54 94 CDA8:49 4F 4E 53 2C 2Ø 59 4F 9F 52 45 CDBØ:55 2Ø 41 2Ø 4F 4E E3 CDB8:45 2Ø 4F 46 20 54 48 45 75 CDCØ:2Ø 46 45 57 2Ø 54 4F 2Ø 2D CDC8:57 49 4E 2Ø 41 54 2Ø 4C 16 CDDØ:41 53 45 52 20 42 45 41 85 CDD8:4D 2E 00 00 00 00 00 A6

## Program 6 Whirlybird

Load and run MLX. When the prompts appear, answer them with

Starting address: 0801 Ending address: 1458

Save a copy of the game to tape or disk once you're finished typing in all the data.

#### Whirlybird

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
Ø8Ø1:1B Ø8 ØØ ØØ 9E 32 3Ø 38 F6
                 14 14
                        14 14 Ø1
Ø8Ø9:3Ø 3A 8F 22
                        4C 59 28
Ø811:14 2Ø 57 48
                 49
                     52
Ø819:42 49 52 44 ØØ ØØ
                        ØØ A9 D4
Ø821:93 2Ø D2 FF A2 ØØ
                        8E 21 BØ
Ø829:DØ 8E 2Ø DØ
                  E8 8E
                        1B DØ DE
Ø831:A9 Ø3 8D 86
                  Ø2 A2
                        1Ø A9
Ø839:ØØ 9D ØØ DØ
                  CA 10 FA A2 EC
Ø841:18 9D ØØ D4
                  CA 10
                        FA A2
                              41
Ø849:18 BD 3B 14 9D ØØ D4 CA DE
Ø851:10 F7 A9
               7F
                  8D ØD DC A9
Ø859:33 85 Ø1 A9
                  ØØ 85
                        FB A9 D6
        85 FC A9
                  ØØ
                        FD A9
Ø861:DØ
                     85
                               31
                  ØØ
                     Bl
                        FB 91
Ø869:38 85 FE AØ
                     E6
                        FC E6 53
Ø871:FD E6 FB DØ Ø2
Ø879:FD DØ Ø2 E6
                  FE
                     38
                        A5
                           FC 8C
        D8 9Ø E9
                  Α9
                     37
                        85
                           Ø1
                               93
Ø881:C9
Ø889:A9 81 8D ØD DC A2
                        Ø8 BD 9Ø
                        D8 13 1D
Ø891:DØ
        13 9D DØ
                  3A BD
Ø899:9D 5Ø 3B BD EØ 13
                        9D 5Ø AE
Ø8A1:39 CA 1Ø EB A9 1F 8D 18 BE
Ø8A9:DØ A9
            11
               85
                  FB A9
                        11 85
Ø8B1:FC A9 ØØ
               85
                  FD
                     Α9
                        3C 85
                               97
                  FB
                     91 FD E6 95
Ø8B9:FE AØ ØØ Bl
Ø8C1:FB DØ Ø2
                        FD
                           DØ
              E6
                  FC
                     E6
                               Ø3
        E6
           FE
              38
                  A5
                     FB
                        E9
                           DØ
Ø8C9:Ø2
Ø8D1:A5 FC E9
               13
                  9Ø
                     E5
                        78 A9
                               19
Ø8D9:DB 8D
                        8D
                           15
            14
               ØЗ
                  A9
                     ØF
                               Α7
         58 A9
               ØØ
                  8D
                     69
                        Ø3 A9
Ø8E1:Ø3
                     ØØ 8D 57 4D
Ø8E9:FØ 8D
            3C Ø3
                  Α9
Ø8F1:Ø3 8D 58 Ø3 2Ø
                     3C ØA A9
```

Ø8F9:14	8D	ØВ	D4	Α9	15	8 D	ØВ	ED
Ø9Ø1:D4	2Ø	C6	ØE	ΑD	62	ØЗ	FØ	2D
Ø9Ø9:F8	CE	62	ØЗ	Α9	Ø1	8D	51	85
Ø911:Ø3	Α9	ØØ	8D	5F	ØЗ	AD	57	Al
Ø919:Ø3	ØD	58	Ø3	E9	ØA	9Ø	14	D7
Ø921:38	AD	57	Ø3	E9	ØA	8D	57	BF
Ø929:Ø3	AD	58	ø3	E9	ØØ	8D	58	26
Ø931:Ø3	20	2E	ØE	20	CA	1Ø	AD	6D
Ø939:ØØ	DC	29	10	DØ	F6	20	F8	44
Ø941:ØB	2Ø	E7	ØC	20	9F	FF	2Ø	3E
Ø949:E4	FF	C9	85	FØ	Ø6	C9	88	1 B
Ø951:FØ	ØA	DØ	ØD	A9	Ø1	8D	69	1 F
Ø959:Ø3	4C	45	Ø9	Α9	ØØ	8D	69	ØВ
Ø961 <b>:</b> Ø3	AD	69	Ø3	DØ	DE	ΑD	46	61
Ø969:Ø3	DØ	Ø8	Α9	ØØ	8D	68	ØЗ	D6
Ø971:4C	7 E	Ø9	AD	68	ØЗ	DØ	Ø5	3B
Ø979:A9	Ø1	8D	68	Ø3	2Ø	97	ØE	ΑE
Ø981:AD	5B	ØЗ	DØ	12	2Ø	Ø2	ØE	Dl
Ø989:2Ø	Ø2	ØE	2Ø	Ø2	ØE	2Ø	Ø2	7 A
Ø991:ØE	2Ø	Ø2	ØE	4C	Ø2	Ø9	AD	FD
Ø999:55	ØЗ	FØ	32	2Ø	39	ØD	2Ø	78
Ø9Al:ED	ØВ	ΑD	ØØ	DC	29	ØF	C9	96
Ø9A9:ØB	FØ	Ø7	C9	Ø7	FØ	ØВ	4C	59
Ø9B1:CØ	Ø9	Α9	ØØ	8D	53	ØЗ	4C	Α7
Ø9 B9 : CØ	Ø9	Α9	Ø1	8D	53	ØЗ	2Ø	93
Ø9Cl:Ø2	ØE	2Ø	51	ØA	A2	Ø1	8E	DC
Ø9C9:51	Ø3	8A	4C	Dl	Ø9	Α9	ØØ	61
Ø9D1:8D	56	ØЗ	2Ø	51	ØA	2Ø	38	CD
Ø9 D9 : ØC	AD	63	Ø3	FØ	Ø3	4C	Ø5	2B
Ø9E1:Ø9	AD	ØØ	DC	29	ØF	C9	ØB	D5
Ø9E9:C9	ØВ	FØ	24	C9	Ø7	FØ	18	68
Ø9F1:AD	46	Ø3	DØ	Ø3	4C	45	Ø9	В6
Ø9 F9 : CE	64	Ø3	AD	64	ø3	DØ	2D	C5
ØAØ1:A9	Ø3	8D	64	ø3	4C	2B	ØA	4C
ØAØ9:AD	41	Ø3	DØ	ø8	4C	26	ØA	79
ØAll:AD	41	Ø3	DØ	1ø	AD	46	Ø3	8ø
ØA19:C9	ØC	9Ø	Ø3	4C	45	ø9	EE	CF
ØA21:46	Ø3	4C	45	ø9	AD	46	Ø3	85
ØA29:FØ	Ø6	CE	46	Ø3	4C	45	Ø9	52
ØA31:AD	41	Ø3	49	Ø1	8D	41	Ø3	25
ØA31:AD	45	Ø9				Ø7	D4	76
			A9	9B	8D			
ØA41:A9	Ø3	8D	Ø8	D4	A9	ØB	8D	ØE
ØA49:00	D4	A9	Ø7	8D	Ø1	D4	6Ø	B2
ØA51:EE	47	Ø3	AD	47	Ø3	DØ	F8	CA
ØA59:EE	48	Ø3	AD	48	Ø3	C9	ØF	23
ØA61:9Ø	EE	A9	ØØ	8D	48	Ø3	6Ø	A2
ØA69:A9	CØ	8D	49	Ø3	A9	Ø7	8D	23
ØA71:4A	Ø3	A9	5Ø	85	Ø3	A9	Ø4	35
ØA79:85	Ø4	A9	6A	8D	4B	Ø3	A9	76
ØA81:0D	8D	4C	ØЗ	2Ø	9Ø	ØВ	Α9	3C

ØA89:E7 8D 49 Ø3 A9 Ø7 8D 4A 1D ØA91:03 A9 77 85 Ø3 A9 Ø4 85 ØA99:04 A9 6A 8D 4B Ø3 2Ø 9Ø Ø6 85 ØAA1:ØB A9 F9 85 Ø3 Α9 ØAA9:04 A9 1E 8D 49 Ø3 A9 Ø7 ØAB1:8D 4A Ø3 Α9 5A 8D 4B Ø3 BC ØAB9:A9 Ø7 8D 4C Ø3 2Ø C2 ØB Ø4 85 ØAC1:A9 21 85 Ø3 A9 Ø7 Ø4 4C ØAC9:A9 46 8D 49 Ø3 A9 Ø7 8D E4 2Ø 25 8D 4C Ø3 ØAD1:4A Ø3 A9 Ø6 ØAD9:C2 ØB A9 49 85 Ø3 A9 Ø7 6E ØAE1:85 Ø4 A9 6E 8D 49 Ø3 A9 17 8D 4A Ø3 A9 Ø5 8D 4C 27 ØAE9:07 ØAF1:03 20 C2 0B A9 71 85 Ø3 B9 ØAF9:A9 Ø7 85 Ø4 A9 96 8D 49 Al 4A Ø3 A9 Ø7 75 ØBØ1:03 A9 Ø7 8D 4C Ø3 2Ø C2 ØB A9 99 8A ØBØ9:8D ØB11:85 Ø3 A9 Ø7 85 Ø4 A9 BE 9E ØB19:8D 49 Ø3 A9 8D 4A Ø3 49 Ø7 Ø6 8D 4C Ø3 2Ø C2 ØB 2D ØB21:A9 85 Ø3 A9 Ø7 85 Ø4 DD ØB29:A9 C1 8D 76 ØB31:A9 E6 8D 49 Ø3 A9 Ø7 ØB39:4A Ø3 A9 Ø3 8D 4C ØЗ 2Ø 5E ØB41:C2 ØB A9 57 8D Ø2 Ø7 8D 36 ØB49:15 Ø7 8D 77 Ø7 8D 9Ø Ø7 6B ØB51:8D C4 Ø7 8D CA Ø7 8D DØ ØB59:07 8D 58 07 8D 6Ø Ø7 8D 5B ØB61:D7 Ø7 8D DD Ø7 8D E3 Ø7 F1 ØB69:A9 Ø1 8D Ø2 DB 8D 15 DB 81 ØB71:8D 77 DB 8D 9Ø DB 8D C4 54 ØB79:DB 8D CA DB 8D DØ DB 8D EC ØB81:D7 DB 8D 58 DB 8D 6Ø DB 63 ØB89:8D DD DB 8D E3 DB 60 A0 22 ØB91:00 AD 4B 03 91 ØЗ **A5** Ø3 93 18 A5 Ø4 69 **D4** 85 Ø6 ØB99:85 Ø5 91 Ø5 18 A5 ØBA1:06 AD 4C Ø3 28 85 Ø3 **A5** Ø4 69 19 ØBA9:03 69 ØBB1:00 85 04 38 AD 49 Ø3 E5 AB ØBB9:03 AD 4A 03 E5 Ø4 ΒØ D1 A8 4B Ø3 97 AD 91 ØЗ ØBC1:60 A0 00 ØBC9:A5 Ø3 85 Ø5 18 A5 Ø4 69 3D ØBD1:D4 85 Ø6 AD 4C Ø3 91 Ø5 E5 DØ Ø2 E6 Ø4 38 AD C3 ØЗ ØBD9:E6 ØBE1:49 ØЗ **E5** Ø3 AD 4A Ø3 **E**5 CC 5E 6Ø A9 20 A0 ØØ ØBE9:04 BØ D8 ØBF1:91 FB A9 Ø1 91 FD 6Ø 2Ø 7A ØBF9:34 ØC C9 23 BØ F9 8D 4 F 7Ø ØCØ1:03 18 A9 CA 6D 4F ØЗ 85 **B6** ØCØ9:FB A9 Ø4 69 ØØ 85 FC 18 **C8** ØC11:A5 FB 69 ØØ 85 FD A5 FC 94

ØC19:69         D4         85         FE         A9         Ø1         8D         51         79           ØC29:8D         53         Ø3         FØ         Ø5         A9         Ø1         8D         AA           ØC31:53         Ø3         6Ø         AD         1B         D4         6Ø         A9         31           ØC39:ØØ         8D         6Ø         AD         1B         D4         6Ø         A9         31           ØC39:ØØ         8D         6Ø         AD         1B         D4         6Ø         A9         31           ØC41:53         Ø3         DØ         16         2Ø         71         ØC         AØ         BB         BC         2Ø         AØ         DØ         4C         AØ         BB         BC         29         2Ø         AØ         BB         A5         EB         ØC         A9         A9         A5         FE         BØ         AG         AP         ØC         AØ         BB         BD         5         FE         AØ         AP         ØC         AØ         AP         AP         AP         AP         ØC         AP         AP         AP         AP <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>									
ØC21:Ø3         2Ø         34         ØC         3Ø         Ø7         A9         ØØ         FA           ØC29:8D         53         Ø3         FØ         Ø5         A9         Ø1         8D         AA           ØC39:ØØ         BD         63         Ø3         2Ø         ED         ØB         AD         CD           ØC49:ØØ         B1         FB         C9         6A         FØ         Ø2         DØ         DD         DD <td>ØC19:69</td> <td><b>D4</b></td> <td>85</td> <td>FE</td> <td>Α9</td> <td>Ø1</td> <td>8D</td> <td>51</td> <td>79</td>	ØC19:69	<b>D4</b>	85	FE	Α9	Ø1	8D	51	79
ØC29:8D         53         Ø3         FØ         Ø5         A9         Ø1         8D         AA           ØC31:53         Ø3         60         AD         1B         D4         60         A9         31           ØC39:ØØ         8D         63         Ø3         2Ø         ED         ØB         AD         CD           ØC49:ØØ         B1         FB         C9         6A         FØ         Ø2         DØ         D5         AP           ØC59:38         ØC         2Ø         FF         ØC         AØ         ØØ         B1         21           ØC61:FB         C9         6A         FØ         Ø2         DØ         25         2Ø         Ø4           ØC69:71         ØC         2Ø         ØD         4C         38         ØC         59           ØC71:38         A5         FB         E9         Ø1         85         FB         A5         E8           ØC79:FC         E9         ØØ         85         FC         6Ø         A5         FB         A5         FC         69         44           ØC81:AF         B8         A5         FB         A5         FB         A5	ØC21:Ø3	2Ø	34	ØC	3Ø	Ø7	Α9		
ØC31:53         Ø3         6Ø         AD         1B         D4         6Ø         A9         31           ØC39:ØØ         8D         63         Ø3         2Ø         ED         ØB         AD         CD           ØC41:53         Ø3         DØ         16         2Ø         71         ØC         AØ         BE           ØC49:ØØ         B1         FB         C9         6A         FØ         Ø2         DØ         DD         D5           ØC51:38         ØC         2Ø         7F         ØC         AØ         ØØ         B1         21           ØC61:FB         C9         6A         FØ         Ø2         DØ         25         2Ø         Ø4           ØC69:71         ØC         2Ø         ØD         4C         38         ØC         59           ØC71:38         A5         FB         E9         Ø1         85         FB         A5         E8           ØC79:FC         E9         ØØ         85         FC         6Ø         A5         FB         A5         FC         69         44           ØC89:B1:B3         A5         FB         A5         FB         A5 <td< td=""><td>ØC29:8D</td><td></td><td></td><td>FØ</td><td>Ø5</td><td></td><td></td><td></td><td></td></td<>	ØC29:8D			FØ	Ø5				
ØC39:ØØ         8D         63         Ø3         2Ø         ED         ØB         AD         CD           ØC41:53         Ø3         DØ         16         2Ø         71         ØC         AØ         BE           ØC49:ØØ         B1         FB         C9         6A         FØ         Ø2         DØ         D5           ØC51:3B         2Ø         7F         ØC         AØ         ØØ         B1         21           ØC69:71         ØC         2Ø         ØD         4C         38         ØC         59           ØC71:38         A5         FB         E9         Ø1         85         FB         A5         E8           ØC79:FC         E9         ØØ         85         FC         6Ø         18         A5         22           ØC81:FB         69         Ø1         85         FB         A5         FC         69         44           ØC89:ØØ         85         FC         6Ø         A5         FB         A5         FC         69         44           ØC89:ØØ         85         FC         6Ø         A5         FB         A5         FC         69         A6         A9	ØC31:53	Ø3	6Ø						
ØC41:53         Ø3         DØ         16         2Ø         71         ØC         AØ         BB           ØC49:ØØ         B1         FB         C9         6A         FØ         Ø2         DØ         D5           ØC51:3B         2Ø         7F         ØC         2Ø         ØD         4C         A7           ØC59:3B         ØC         2Ø         7F         ØC         AØ         ØØ         B1         21           ØC69:71         ØC         2Ø         2Ø         ØD         4C         38         ØC         59           ØC79:FC         E9         ØØ         85         FC         6Ø         18         A5         28           ØC81:FB         69         Ø1         85         FB         A5         FC         6Ø         44           ØC89:ØØ         85         FC         6Ø         A5         FB         A5         A2           ØC81:A5         FB         A9         A1         A5         FC         6Ø         4A           ØC89:AB         A5         FB         E9         51         A5         FC         6Ø         4B           ØC81:AB         A5 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
ØC49:ØØ         B1         FB         C9         6A         FØ         Ø2         DØ         D5           ØC51:3B         2Ø         7F         ØC         2Ø         2Ø         ØD         4C         A7           ØC59:38         ØC         2Ø         7F         ØC         AØ         ØØ         B1         21           ØC61:FB         C9         6A         FØ         Ø2         DØ         25         2Ø         Ø4           ØC69:71         ØC         2Ø         ØD         4C         38         ØC         59           ØC79:FC         E9         ØØ         85         FC         6Ø         18         A5         E8           ØC89:ØØ         85         FC         6Ø         A5         FB         A5         FC         69         44         40         88         A         A5         FB         A5         FB         A5         FC         69         A4         A6         A9         A9         A6         A9         A9         A8         A5         FB         A9         A1         A9         A9         A9         A9         A9         A9         A9         A9         A9									
ØC51:3B         20         7F         ØC         20         ØD         4C         A7           ØC59:3B         ØC         20         7F         ØC         AØ         ØØ         B1         21           ØC61:FB         C9         6A         FØ         Ø2         DØ         25         20         Ø4           ØC69:71         ØC         20         20         ØD         4C         38         ØC         59           ØC71:3B         A5         FB         E9         Ø1         85         FB         A5         E8           ØC79:FC         E9         Ø0         85         FC         60         18         A5         22           ØC81:FB         69         Ø1         85         FC         60         18         A5         22           ØC81:FB         69         Ø1         85         FC         60         A5         FB         A5         FC         69         44           ØC89:A0         85         FC         60         A5         FB         85         AA         7B           ØC21:A5         FB         A5         FB         E9         Ø0         85         26									
ØC59:38         ØC         20         7F         ØC         AØ         ØØ         B1         21           ØC61:FB         C9         6A         FØ         Ø2         DØ         25         20         Ø4           ØC69:71         ØC         2Ø         2Ø         ØD         4C         38         ØC         59           ØC71:38         A5         FB         E9         Ø1         85         FB         A5         E8           ØC79:FC         E9         ØØ         85         FC         6Ø         18         A5         22           ØC81:FB         69         Ø1         85         FB         A5         FC         69         44           ØC89:ØØ         85         FC         6Ø         A5         FB         85         AA         7B           ØC91:A5         FC         85         AB         AD         51         Ø3         DØ         BØ           ØC91:A5         FC         85         FB         A5         FC         E9         ØØ         85         26           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         10									
ØC61:FB         C9         6A         FØ         Ø2         DØ         25         2Ø         Ø4           ØC69:71         ØC         2Ø         2Ø         ØD         4C         38         ØC         59           ØC71:38         A5         FB         E9         Ø1         85         FB         A5         E8           ØC79:FC         E9         ØØ         85         FC         6Ø         18         A5         22           ØC81:FB         69         Ø1         85         FB         A5         FC         69         44           ØC89:ØØ         85         FC         6Ø         A5         FB         85         AA         7B           ØC99:1B         38         A5         FB         E9         51         A5         FC         9E           ØC29:1B         38         A5         FB         E9         51         A5         FC         9E           ØCA1:E9         Ø4         9Ø         5A         38         A5         FB         E9         A1           ØCA1:E9         Ø4         9Ø         5A         5B         FB         A5         FC         BP         ØØ									
ØC69:71         ØC         2Ø         2Ø         ØD         4C         38         ØC         59           ØC71:38         A5         FB         E9         Ø1         85         FB         A5         E8           ØC79:FC         E9         ØØ         85         FC         6Ø         18         A5         22           ØC81:FB         69         Ø1         85         FB         A5         FC         69         44           ØC89:ØØ         85         FC         6Ø         A5         FB         85         AA         7B           ØC91:A5         FC         85         AB         AD         51         Ø3         DØ         BØ           ØC99:1B         38         A5         FB         E9         51         A5         FC         9E           ØCA1:E9         Ø4         9Ø         5A         38         A5         FB         E9         A1           ØCA9:28         85         FB         A5         FC         E9         Ø0         85         FC         B9         A0         A1         87           ØCC1:A5         FB         69         28         85         FB									
ØC71:38         A5         FB         E9         Ø1         85         FB         A5         E8           ØC79:FC         E9         ØØ         85         FC         6Ø         18         A5         22           ØC81:FB         69         Ø1         85         FB         A5         FC         69         44           ØC89:ØØ         85         FC         6Ø         A5         FB         85         AA         7B           ØC91:A5         FC         85         AB         AD         51         Ø3         DØ         BØ           ØC99:1B         38         A5         FB         E9         51         A5         FC         9E           ØCA1:E9         Ø4         9Ø         5A         38         A5         FB         E9         A1           ØCA9:28         85         FB         A5         FC         E9         Ø0         85         FC         BF         40         18         87           ØCC9:69         ØØ         85         FC         B1         FB         A5         FC         BF           ØCC9:69:69         ØØ         85         FC         B1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
ØC79:FC         E9         ØØ         85         FC         6Ø         18         A5         22           ØC81:FB         69         Ø1         85         FB         A5         FC         69         44           ØC89:ØØ         85         FC         6Ø         A5         FB         85         AA         7B           ØC91:A5         FC         85         AB         AD         51         Ø3         DØ         BØ           ØC99:1B         38         A5         FB         E9         51         A5         FC         9E           ØCA1:E9         Ø4         9Ø         5A         38         A5         FB         E9         A1           ØCA9:28         85         FB         A5         FC         E9         ØØ         4D         18         87           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         1Ø           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         1Ø           ØCC1:A5         FB         69         28         85         FB         A5         FC         BF									
0C81:FB         69         Ø1         85         FB         A5         FC         69         44           ØC89:ØØ         85         FC         6Ø         A5         FB         85         AA         7B           ØC91:A5         FC         85         AB         AD         51         Ø3         DØ         BØ           ØC99:1B         38         A5         FB         E9         51         A5         FC         9E           ØCA1:E9         Ø4         9Ø         5A         38         A5         FB         E9         A1           ØCA9:28         85         FB         A5         FC         E9         ØØ         85         26           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         1Ø           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         1Ø           ØCB1:A5         FB         69         28         85         FB         A5         FC         BF           ØCC9:69         ØØ         85         FC         B1         FB         A5         FC         BF         ØC									
ØC89:ØØ         85         FC         6Ø         A5         FB         85         AA         7B           ØC91:A5         FC         85         AB         AD         51         Ø3         DØ         BØ           ØC99:1B         38         A5         FB         E9         51         A5         FC         9E           ØCA1:E9         Ø4         9Ø         5A         38         A5         FB         E9         A1           ØCA9:28         85         FB         A5         FC         E9         ØØ         85         26           ØCB9:CØ         A5         FC         E9         Ø7         BØ         4D         18         87           ØCC9:69         ØØ         85         FC         B1         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17									
ØC91:A5         FC         85         AB         AD         51         Ø3         DØ         BØ           ØC99:1B         38         A5         FB         E9         51         A5         FC         9E           ØCA1:E9         Ø4         9Ø         5A         38         A5         FB         E9         A1           ØCA9:28         85         FB         A5         FC         E9         ØØ         85         26           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         1Ø           ØCB9:CØ         A5         FC         E9         Ø7         BØ         4D         18         87           ØCC9:69         ØØ         85         FC         B1         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD1:DØ         Ø3         4C         BA         ØD         A9         ØØ         8B           ØCE									
ØC99:1B         38         A5         FB         E9         51         A5         FC         98           ØCA1:E9         Ø4         90         5A         38         A5         FB         E9         A1           ØCA9:28         85         FB         A5         FC         E9         Ø0         85         26           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         1Ø           ØCB9:CØ         A5         FC         E9         Ø7         BØ         4D         18         87           ØCC1:A5         FB         69         28         85         FB         A5         FC         BF           ØCC9:69         ØØ         85         FC         B1         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD1:DØ         Ø3         4C         BA         DØ         A9         ØØ         8B         BØ         A<									
ØCA1:E9         Ø4         90         5A         38         A5         FB         E9         A1           ØCA9:28         85         FB         A5         FC         E9         Ø0         85         26           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         10           ØCB9:C0         A5         FC         E9         Ø7         BØ         4D         18         87           ØCC1:A5         FB         69         28         85         FB         A5         FC         BF           ØCC9:69         ØØ         85         FC         B1         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD1:DØ         Ø3         4C         4D         DC         5A         FØ         17         P           ØCD1:DØ         Ø3         AD         CD         CD         AD         ØØ         8B         B         AD </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
ØCA9:28         85         FB         A5         FC         E9         ØØ         85         26           ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         1Ø           ØCB9:CØ         A5         FC         E9         Ø7         BØ         4D         18         87           ØCC1:A5         FB         69         28         85         FB         A5         FC         BF           ØCC9:69         ØØ         85         FC         B1         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD9:Ø7         C9         6A         FØ         42         4C         E7         ØC         63           ØCE1:2Ø         15         ØD         2Ø         83         ØE         AØ         ØØ         88           ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF1:ØØ         85         FD         A5         FC         69         D4         85         42									
ØCB1:FC         4C         CD         ØC         38         A5         FB         E9         10           ØCB9:CØ         A5         FC         E9         Ø7         BØ         4D         18         87           ØCC1:A5         FB         69         28         85         FB         A5         FC         BF           ØCC9:69         ØØ         85         FC         BI         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD9:Ø7         C9         6A         FØ         42         4C         E7         ØC         63           ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØD9:BD         46         Ø3         6Ø         A9         ØØ         8D         51         PB           ØD1:BD         51         Ø3         AC         39         ØD         AD         51         Ø3         42 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
ØCB9:CØ         A5         FC         E9         Ø7         BØ         4D         18         87           ØCC1:A5         FB         69         28         85         FB         A5         FC         BF           ØCC9:69         ØØ         85         FC         BI         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD9:Ø7         C9         6A         FØ         42         4C         E7         ØC         63           ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         Ø0         E9           ØDØ1:8D         46         Ø3         6Ø         A9         Ø0         8D         51         9B           ØD19:8D         46         Ø3         6Ø         A9         Ø0         8D         51         9B									
ØCC1:A5         FB         69         28         85         FB         A5         FC         BF           ØCC9:69         ØØ         85         FC         BI         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD9:Ø7         C9         6A         FØ         42         4C         E7         ØC         63           ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         ØØ         E9           ØDØ9:8D         46         Ø3         6Ø         A9         ØØ         8D         51         PB           ØD11:Ø3         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         8D									-
ØCC9:69         ØØ         85         FC         B1         FB         C9         57         7F           ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD9:Ø7         C9         6A         FØ         42         4C         E7         ØC         63           ØCE1:2Ø         15         ØD         2Ø         83         ØE         AØ         ØØ         88           ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         ØØ         E9           ØDØ9:8D         46         Ø3         6Ø         A9         ØØ         8D         51         PB           ØD11:Ø3         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         AB							-		
ØCD1:DØ         Ø3         4C         54         ØD         C9         5A         FØ         17           ØCD9:Ø7         C9         6A         FØ         42         4C         E7         ØC         63           ØCE1:2Ø         15         ØD         2Ø         83         ØE         AØ         ØØ         88           ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         ØØ         E9           ØDØ9:8D         46         Ø3         6Ø         A9         ØØ         E9         ØØ         BD         51         9B           ØD11:Ø3         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         AD <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
ØCD9:Ø7         C9         6A         FØ         42         4C         E7         ØC         63           ØCE1:2Ø         15         ØD         2Ø         83         ØE         AØ         ØØ         88           ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         ØØ         E9           ØDØ9:8D         46         Ø3         6Ø         A9         ØØ         8D         51         9B           ØD11:Ø3         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         AB         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         AB         B9           ØD29:39         ØD         38         A5         FB         E9         28         85									
ØCE1:2Ø         15         ØD         2Ø         83         ØE         AØ         ØØ         88           ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF1:ØØ         85         FD         A5         FC         69         D4         85         42           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         ØØ         E9           ØDØ9:8D         46         Ø3         6Ø         A9         ØØ         8D         51         9B           ØD11:03         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:01         8D         51         Ø3         4C         39         ØD         AD									
ØCE9:A9         2A         91         FB         18         A5         FB         69         ØC           ØCF1:ØØ         85         FD         A5         FC         69         D4         85         42           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         ØØ         E9           ØDØ9:8D         46         Ø3         6Ø         A9         ØØ         8D         51         9B           ØD11:Ø3         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         8Ø           ØD19:Ø1         8D         51         Ø3         4C         EA           ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD49:A9         51 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
ØCF1:ØØ         85         FD         A5         FC         69         D4         85         42           ØCF9:FE         A9         Ø1         91         FD         6Ø         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         ØØ         E9           ØDØ9:8D         46         Ø3         6Ø         A9         ØØ         8D         51         9B           ØD11:Ø3         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         8D           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         8D           ØD21:53         Ø3         49         Ø1         8D         53         Ø3         4C         EA           ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61									
ØCF9:FE         A9         Ø1         91         FD         60         A9         Ø1         FA           ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         Ø0         E9           ØDØ9:8D         46         Ø3         60         A9         Ø0         8D         51         9B           ØD11:Ø3         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         80           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         80           ØD21:53         Ø3         49         Ø1         8D         53         Ø3         4C         EA           ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD39:A9         40         8D         Ø4         D4         2Ø         CA         1Ø         49									
ØDØ1:8D         51         Ø3         8D         63         Ø3         A9         ØØ         E9           ØDØ9:8D         46         Ø3         60         A9         Ø0         8D         51         9B           ØD11:03         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:01         8D         51         Ø3         4C         39         ØD         AD         80           ØD21:53         Ø3         49         Ø1         8D         53         Ø3         4C         EA           ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD39:A9         40         8D         Ø4         D4         2Ø         CA         1Ø         F6           ØD41:A9         B4         8D         5E         Ø3         A9         Ø1         8D         43           ØD49:5D         Ø3         8D         5F         Ø3         A9         Ø1         8D         49									
ØDØ9:8D         46         Ø3         6Ø         A9         ØØ         8D         51         9B           ØD11:Ø3         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         8Ø           ØD21:53         Ø3         49         Ø1         8D         53         Ø3         4C         EA           ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD39:A9         4Ø         8D         Ø4         D4         2Ø         CA         1Ø         F6           ØD41:A9         B4         8D         5E         Ø3         A9         Ø1         8D         43           ØD49:5D         Ø3         8D         5F         Ø3         A9         Ø1         8D         49           ØD51:Ø4         D4         6Ø         2Ø         3C         ØA         A9         Ø3         11					FD	6Ø	Α9	Øl	FA
ØD11:03         4C         39         ØD         AD         51         Ø3         49         B9           ØD19:01         8D         51         Ø3         4C         39         ØD         AD         80           ØD21:53         Ø3         49         Ø1         8D         53         Ø3         4C         EA           ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD39:A9         40         8D         Ø4         D4         2Ø         CA         1Ø         F6           ØD41:A9         B4         8D         5E         Ø3         A9         Ø1         8D         43           ØD49:5D         Ø3         8D         5F         Ø3         A9         Ø1         8D         49           ØD51:Ø4         D4         6Ø         2Ø         3C         ØA         A9         Ø3         11           ØD59:8D         46         Ø3         A9         Ø2         8D         2Ø         CA         4D		51	ØЗ	8D	63	ØЗ	Α9	ØØ	E9
ØD19:Ø1         8D         51         Ø3         4C         39         ØD         AD         8Ø           ØD21:53         Ø3         49         Ø1         8D         53         Ø3         4C         EA           ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD39:A9         4Ø         8D         Ø4         D4         2Ø         CA         1Ø         F6           ØD41:A9         B4         8D         5E         Ø3         A9         Ø1         8D         43           ØD49:5D         Ø3         8D         5F         Ø3         A9         Ø1         8D         49           ØD51:Ø4         D4         6Ø         2Ø         3C         ØA         A9         Ø3         11           ØD59:8D         46         Ø3         A9         Ø2         8D         2Ø         DØ         1E           ØD61:8D         21         DØ         2Ø         ED         ØB         2Ø         CA         4D	ØDØ9:8D	46	ØЗ	6Ø	Α9	ØØ	8D	51	9B
ØD21:53         Ø3         49         Ø1         8D         53         Ø3         4C         EA           ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD39:A9         4Ø         8D         Ø4         D4         2Ø         CA         1Ø         F6           ØD41:A9         B4         8D         5E         Ø3         A9         Ø1         8D         43           ØD49:5D         Ø3         8D         5F         Ø3         A9         Ø1         8D         49           ØD51:Ø4         D4         6Ø         2Ø         3C         ØA         A9         Ø3         11           ØD59:8D         46         Ø3         A9         Ø2         8D         2Ø         DØ         1E           ØD61:8D         21         DØ         2Ø         ED         ØB         2Ø         CA         4D           ØD69:1Ø         EE         Ø1         DØ         AD         3F         ØD         AD         3F	ØD11:03	4C	39	ØD	ΑD	51	ØЗ	49	В9
ØD29:39         ØD         38         A5         FB         E9         28         85         E1           ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD39:A9         4Ø         8D         Ø4         D4         2Ø         CA         1Ø         F6           ØD41:A9         B4         8D         5E         Ø3         A9         Ø1         8D         43           ØD49:5D         Ø3         8D         5F         Ø3         A9         Ø1         8D         49           ØD51:Ø4         D4         6Ø         2Ø         3C         ØA         A9         Ø3         11           ØD59:8D         46         Ø3         A9         Ø2         8D         2Ø         DØ         1E           ØD61:8D         21         DØ         2Ø         ED         ØB         2Ø         CA         4D           ØD69:1Ø         EE         Ø1         DØ         AD         3F           ØD71:0I         DØ         8D         Ø1         D4         C9         E9         9Ø         34           ØD79:02         BØ <t< td=""><td>ØD19:01</td><td>8D</td><td>51</td><td>ØЗ</td><td>4C</td><td>39</td><td>ØD</td><td>AD</td><td>8Ø</td></t<>	ØD19:01	8D	51	ØЗ	4C	39	ØD	AD	8Ø
ØD31:FB         A5         FC         E9         ØØ         85         FC         6Ø         61           ØD39:A9         4Ø         8D         Ø4         D4         2Ø         CA         1Ø         F6           ØD41:A9         B4         8D         5E         Ø3         A9         Ø1         8D         43           ØD49:5D         Ø3         8D         5F         Ø3         A9         41         8D         49           ØD51:Ø4         D4         6Ø         2Ø         3C         ØA         A9         Ø3         11           ØD59:8D         46         Ø3         A9         Ø2         8D         2Ø         DØ         1E           ØD61:8D         21         DØ         2Ø         ED         ØB         2Ø         CA         4D           ØD69:1Ø         EE         Ø1         DØ         AD         3F           ØD71:0°         DØ         8D         Ø1         D4         C9         E9         9Ø         34           ØD79:0°         BØ         Ø5         AD         55         Ø3         FØ         E6         BB           ØD89:8Ø         F9 <t< td=""><td></td><td>ØЗ</td><td>49</td><td>Ø1</td><td>8D</td><td>53</td><td>ØЗ</td><td>4C</td><td>EA</td></t<>		ØЗ	49	Ø1	8D	53	ØЗ	4C	EA
ØD39:A9       40       8D       Ø4       D4       20       CA       10       F6         ØD41:A9       B4       8D       5E       Ø3       A9       Ø1       8D       43         ØD49:5D       Ø3       8D       5F       Ø3       A9       41       8D       49         ØD51:Ø4       D4       6Ø       2Ø       3C       ØA       A9       Ø3       11         ØD59:8D       46       Ø3       A9       Ø2       8D       2Ø       DØ       1E         ØD61:8D       21       DØ       2Ø       ED       ØB       2Ø       CA       4D         ØD69:1Ø       EE       Ø1       DØ       AD       3F       ØD       AD       3F         ØD71:Ø1       DØ       8D       Ø1       D4       C9       E9       9Ø       34         ØD79:Ø2       BØ       Ø5       AD       55       Ø3       FØ       E6       BB         ØD81:2Ø       39       ØD       2Ø       34       ØC       C9       2Ø       23         ØD89:BØ       F9       8D       4F       Ø3       A9       AC       85       BE <td>ØD29:39</td> <td>ØD</td> <td></td> <td><b>A</b>5</td> <td>FB</td> <td>E9</td> <td>28</td> <td>85</td> <td>El</td>	ØD29:39	ØD		<b>A</b> 5	FB	E9	28	85	El
ØD41:A9       B4       8D       5E       Ø3       A9       Ø1       8D       43         ØD49:5D       Ø3       8D       5F       Ø3       A9       41       8D       49         ØD51:Ø4       D4       6Ø       2Ø       3C       ØA       A9       Ø3       11         ØD59:8D       46       Ø3       A9       Ø2       8D       2Ø       DØ       1E         ØD61:8D       21       DØ       2Ø       ED       ØB       2Ø       CA       4D         ØD69:1Ø       EE       Ø1       DØ       AD       3F       AD       3D       3A       AD       CP       2Ø       2Ø       23       AD       3D       3D       AD       AD       3F	ØD31:FB	Α5	FC	E9	ØØ	85	FC	6Ø	61
ØD49:5D       Ø3       8D       5F       Ø3       A9       41       8D       49         ØD51:Ø4       D4       6Ø       2Ø       3C       ØA       A9       Ø3       11         ØD59:8D       46       Ø3       A9       Ø2       8D       2Ø       DØ       1E         ØD61:8D       21       DØ       2Ø       ED       ØB       2Ø       CA       4D         ØD69:1Ø       EE       Ø1       DØ       EE       Ø1       DØ       AD       3F         ØD71:Ø1       DØ       8D       Ø1       D4       C9       E9       9Ø       34         ØD79:Ø2       BØ       Ø5       AD       55       Ø3       FØ       E6       BB         ØD81:2Ø       39       ØD       2Ø       34       ØC       C9       2Ø       23         ØD89:BØ       F9       8D       4F       Ø3       A9       AC       85       BE         ØD91:BØ       A9       Ø6       85       B1       AØ       ØØ       18       AF         ØD99:A5       BØ       6D       4F       Ø3       85       BØ       A5       8A <td>ØD39:A9</td> <td>40</td> <td>8D</td> <td>Ø4</td> <td><b>D4</b></td> <td>2Ø</td> <td>CA</td> <td></td> <td>F6</td>	ØD39:A9	40	8D	Ø4	<b>D4</b>	2Ø	CA		F6
ØD51:Ø4       D4       6Ø       2Ø       3C       ØA       A9       Ø3       11         ØD59:8D       46       Ø3       A9       Ø2       8D       2Ø       DØ       1E         ØD61:8D       21       DØ       2Ø       ED       ØB       2Ø       CA       4D         ØD69:1Ø       EE       Ø1       DØ       EE       Ø1       DØ       AD       3F         ØD71:Ø1       DØ       8D       Ø1       D4       C9       E9       9Ø       34         ØD79:Ø2       BØ       Ø5       AD       55       Ø3       FØ       E6       BB         ØD81:2Ø       39       ØD       2Ø       34       ØC       C9       2Ø       23         ØD89:BØ       F9       8D       4F       Ø3       A9       AC       85       BE         ØD91:BØ       A9       Ø6       85       B1       AØ       ØØ       18       AF         ØD99:A5       BØ       6D       4F       Ø3       85       BØ       A5       8A	ØD41:A9	B4	8D	5E	Ø3	Α9	Ø1	8D	43
ØD59:8D     46     Ø3     A9     Ø2     8D     2Ø     DØ     1E       ØD61:8D     21     DØ     2Ø     ED     ØB     2Ø     CA     4D       ØD69:1Ø     EE     Ø1     DØ     EE     Ø1     DØ     AD     3F       ØD71:Ø1     DØ     8D     Ø1     D4     C9     E9     9Ø     34       ØD79:Ø2     BØ     Ø5     AD     55     Ø3     FØ     E6     BB       ØD81:2Ø     39     ØD     2Ø     34     ØC     C9     2Ø     23       ØD89:BØ     F9     8D     4F     Ø3     A9     AC     85     BE       ØD91:BØ     A9     Ø6     85     B1     AØ     ØØ     18     AF       ØD99:A5     BØ     6D     4F     Ø3     85     BØ     A5     8A	ØD49:5D	ØЗ	8D	5 F	ØЗ	Α9	41	8D	49
ØD59:8D     46     Ø3     A9     Ø2     8D     2Ø     DØ     1E       ØD61:8D     21     DØ     2Ø     ED     ØB     2Ø     CA     4D       ØD69:1Ø     EE     Ø1     DØ     EE     Ø1     DØ     AD     3F       ØD71:Ø1     DØ     8D     Ø1     D4     C9     E9     9Ø     34       ØD79:Ø2     BØ     Ø5     AD     55     Ø3     FØ     E6     BB       ØD81:2Ø     39     ØD     2Ø     34     ØC     C9     2Ø     23       ØD89:BØ     F9     8D     4F     Ø3     A9     AC     85     BE       ØD91:BØ     A9     Ø6     85     B1     AØ     ØØ     18     AF       ØD99:A5     BØ     6D     4F     Ø3     85     BØ     A5     8A	ØD51:04	D4	6Ø	2Ø	3C	ØA	Α9	Ø3	11
ØD61:8D       21       DØ       2Ø       ED       ØB       2Ø       CA       4D         ØD69:1Ø       EE       Ø1       DØ       EE       Ø1       DØ       AD       3F         ØD71:Ø1       DØ       8D       Ø1       D4       C9       E9       9Ø       34         ØD79:Ø2       BØ       Ø5       AD       55       Ø3       FØ       E6       BB         ØD81:2Ø       39       ØD       2Ø       34       ØC       C9       2Ø       23         ØD89:BØ       F9       8D       4F       Ø3       A9       AC       85       BE         ØD91:BØ       A9       Ø6       85       B1       AØ       ØØ       18       AF         ØD99:A5       BØ       6D       4F       Ø3       85       BØ       A5       8A	ØD59:8D	46			Ø2	8D	2Ø	DØ	1 E
ØD69:10       EE       Ø1       DØ       EE       Ø1       DØ       AD       3F         ØD71:Ø1       DØ       8D       Ø1       D4       C9       E9       9Ø       34         ØD79:Ø2       BØ       Ø5       AD       55       Ø3       FØ       E6       BB         ØD81:20       39       ØD       2Ø       34       ØC       C9       2Ø       23         ØD89:BØ       F9       8D       4F       Ø3       A9       AC       85       BE         ØD91:BØ       A9       Ø6       85       B1       AØ       ØØ       18       AF         ØD99:A5       BØ       6D       4F       Ø3       85       BØ       A5       8A	ØD61:8D		DØ	2Ø	ED	ØВ		CA	4D
ØD71:Ø1       DØ       8D       Ø1       D4       C9       E9       9Ø       34         ØD79:Ø2       BØ       Ø5       AD       55       Ø3       FØ       E6       BB         ØD81:2Ø       39       ØD       2Ø       34       ØC       C9       2Ø       23         ØD89:BØ       F9       8D       4F       Ø3       A9       AC       85       BE         ØD91:BØ       A9       Ø6       85       B1       AØ       ØØ       18       AF         ØD99:A5       BØ       6D       4F       Ø3       85       BØ       A5       8A	ØD69:1Ø	EE	Ø1	DØ	EE	Ø1	DØ		3 F
ØD79:02       BØ       Ø5       AD       55       Ø3       FØ       E6       BB         ØD81:20       39       ØD       20       34       ØC       C9       20       23         ØD89:BØ       F9       8D       4F       Ø3       A9       AC       85       BE         ØD91:BØ       A9       Ø6       85       B1       AØ       ØØ       18       AF         ØD99:A5       BØ       6D       4F       Ø3       85       BØ       A5       8A									
ØD81:20       39       ØD       20       34       ØC       C9       20       23         ØD89:B0       F9       8D       4F       Ø3       A9       AC       85       BE         ØD91:B0       A9       Ø6       85       B1       AØ       Ø0       18       AF         ØD99:A5       B0       6D       4F       Ø3       85       B0       A5       8A									
ØD89:BØ       F9       8D       4F       Ø3       A9       AC       85       BE         ØD91:BØ       A9       Ø6       85       BI       AØ       ØØ       18       AF         ØD99:A5       BØ       6D       4F       Ø3       85       BØ       A5       8A									
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רס ממ בט דמידעת מ	ØDA1:B1	69	ØØ	85	B1	Bl	BØ	C9	C6

ØDA9:6A FØ D8 C8 CØ Ø5 DØ F5 Α9 6A 91 ВØ 18 A5 9D ØDB1:AØ Ø2 85 **A5** Bl 69 **C7** ØDB9:BØ 69 ØØ ВØ 85 ØDC1:D4 B1 **A9** Ø3 91 BØ ΑØ **D8** ØЗ 91 ВØ ΑØ ØØ AD 7D ØDC9:00 Α9 2Ø CA 75 DØ C9 3C 9Ø 12 ØDD1:01 CE Ø1 AD A6 ØDD9:10 CE Ø1 DØ DØ ØDE1:01 DØ 8D 01 D4 4C DØ ØD F8 ØDE9:AD 1F DØ A9 ØØ 8D 2Ø DØ 9E 8D 55 Ø3 2Ø 39 3E ØDF1:8D 21 DØ 68 68 20 3C 0A 4C 35 9B ØDF9:ØD 18 AD 57 Ø3 69 ØA 8D 32 ØEØ1:09 ØEØ9:57 ØЗ AD 58 Ø3 69 ØØ 8D 18 38 AD 57 Ø3 ED 54 F2 ØE11:58 Ø3 55 14 9Ø 63 ØE19:14 AD 58 Ø3 ED ØE21:0C AD 57 Ø3 8D 54 14 AD 5D 13 2Ø ØE29:58 Ø3 8D 55 14 Α9 2Ø 9D ØØ C4 ØE31:D2 FF A2 ØB A9 1D 2Ø D2 CA 1Ø FA A9 ØE39:04 1D 2Ø D2 FF AE 57 B8 ØE41:FF A9 2Ø BD A9 EA ØE49:03 AD 58 Ø3 CD **E8** ΑØ 13 25 2Ø D2 FF A9 ØE51:20 AD 55 11 ØE59:2Ø 1E AB AE 54 14 2Ø D2 Ø6 ØE61:14 20 CD BD **A9** 2Ø 18 ΑØ 14 2Ø 1E AB Ø6 ØE69:FF A9 ØE71:AE 62 Ø3 A9 ØØ 2Ø CD BD FF 2Ø 4C D6 ØE79:A9 2Ø 2Ø D2 Α9 57 Ø3 69 Ø1 7 F ØE81:D2 FF 18 AD ØE89:8D 57 Ø3 AD 58 Ø3 69 ØØ ØE91:8D 58 Ø3 4C 13 ØE A9 ØØ D3 Ø4 85 AA A9 95 ØE99:8D 5B Ø3 85 ØEAl:AB AØ ØØ Bl AA C9 5A FØ F8 12 **E6** AA DØ 8F ØEA9:16 C9 57 FØ **A5** AA E9 E6 14 ØEB1:02 E6 AB 38 AB E9 Ø7 90 E5 6Ø A9 C7 ØEB9:A5 2Ø 3C ØA 63 ØEC1:Ø1 8D 5B Ø3 6Ø 62 Ø3 A9 Ø3 23 ØEC9:AD 56 14 8D 2Ø D2 FF 8B ØED1:8D 64 Ø3 A9 93 ØED9:A9 ØØ 8D 15 DØ 2Ø 69 ØA Bl 3F 2E ØE A9 Ø1 8D lD DØ ØEE1:20 DØ A9 F3 8D 8E 3D 8D Ø1 ØEE9:A9 ØEF1:F8 Ø7 8D 3C ØЗ Α9 Ø6 8D 1A 8D 46 Ø3 A9 8Ø ØEF9:3E Ø3 A9 Ø2 8D 51 Ø3 8D 53 Ø3 A9 C6 ØFØ1:Ø1 ØFØ9:5Ø 8D 3F Ø3 8D ØØ DØ A9 82 ØF11:00 8D 40 8D 10 D0 8D A6 Ø3 9D 17 ØF19:41 Ø3 A2 Ø8 BD FD 13 4D D9 BD 2Ø ØF21:4D Ø5 A9 Ø3 9D ØF29:06 14 9D 75 Ø5 A9 Ø3 9D CC ØF31:75 D9 BD ØF 14 9D 9D Ø5 8Ø

ØF39:A9	Ø3	9D	9D	D9	CA	1Ø	DC	71
ØF41:A9	22	8D	44	Ø3	Α9	ØØ	8D	FE
ØF49:45	ØЗ	Α9	2Ø	8D	42	ØЗ	Α9	27
ØF51:Ø1	8D	43	Ø3	8D	15	DØ	2Ø	6E
ØF59:CA	10	AD	ØØ	DC	29	ØF	C9	ØA
ØF61:ØE	FØ	Ø7	C9	ØD	FØ	ØC	4C	DØ
ØF69:7D	ØF	EE	62	ØЗ	2Ø	6A	ØE	89
ØF71:4C	77	ØF	CE	62	Ø3	2Ø	6A	2C
ØF79:ØE	2Ø	51	ØA	A5	C5	C9	Ø4	4D
ØF81:FØ	ØВ	C9	Ø5	FØ	14	C9	ø3	D2
ØF89:FØ	49	4C	58	ØF	Ā9	ØØ	8D	2E
ØF91:5C	Ø3	Α9	Ø1	8D	1D	DØ	4C	B2
ØF99:B9	ØF	A9	Ø1	8D	5 C	Ø3	A9	2B
ØFA1:00	8D	1D	DØ	A9	2Ø	8D	44	Ø1
ØFA9:03	A9	ØØ	8D	45	ø3	A9	37	4D
ØFB1:8D	42	ø3	A9	Ø1	8D	43	Ø3	E9
ØFB9:A2	Ø8	A9	2Ø	9D	4D	Ø5	9D	2C
ØFC1:75	Ø5	9D	9D	Ø5	CA	1Ø	F4	Dl
ØFC9:A9	ØØ	8D	57	Ø3	8 D	58	Ø3	E5
ØFD1:4C	2E	ØE	A9	ØØ	85	C6	4C	ED
ØFD9:C6	ØØ	AD	69	Ø3	FØ	Ø3	4C	D5
ØFE1:31	EA	EE	5D	Ø3	AD	5D	Ø3	93
ØFE9:C9	Ø1	90	33	A9	ØØ	8D	5D	38
ØFF1:03	AD	5F	Ø3	DØ	17	EE	5E	38
ØFF9:03	EE	5E	Ø3	AD	5E	Ø3	C9	Ø8
1001:FA	BØ	Ø2	9Ø	1A	A9	Ø1	8D	1B
1001:FA	Ø3	4C	20	10	CE	5E		
1011:CE	5E	Ø3	AD	5E	Ø3		Ø3	AØ
1011:CE	Ø5	A9	ØØ	8D	5 F	C9	32	3Ø
1019:50 1021:5E	Ø3	8D	16	D4	AD	Ø3 1F	AD	A5
1029:8D	55	Ø3	AD	46	Ø3	4A	DØ 8D	BØ
1031:3E	Ø3	AD	3D	Ø3	CD	3E	Ø3	Ø1 89
1031:3E	Ø6	EE	3D	Ø3	4C	6Ø	10	
1041:A9	ØØ	8D	3D	Ø3	AD	3C	Ø3	FE Ø6
1041 : C9	F9	BØ	ØС	EE	3C	Ø3	AD	BF
1051:3C	Ø3	8D	F8	Ø7	4C	6Ø	1Ø	СВ
1051:30 1059:A9	FØ	8D	3 C	Ø3	DØ	ED.	AD	E4
1061:41	Ø3	FØ	2B	38	AD	3F	Ø3	
1069:ED	42	Ø3	AD	4Ø	Ø3	ED	43	AD 79
1071:03	BØ	15	18	AD	3F	Ø3	43 6D	41
1079:46	Ø3	8D	3 F	Ø3	AD	4Ø	Ø3	
1081:69	ØØ	8D	4Ø	Ø3	4C	BB	10	75
1081:09	ØØ	8D	41	Ø3	FØ			DC
1009:A9	44	Ø3	ED	3F	Ø3	2B	38 45	AE
1091:AD	ED	ช3 40	Ø3	FØ	17	AD BØ	15	7F 49
1099:03	AD	3F	Ø3	ED	46	Ø3	8D	49 7D
10A1:36	Ø3	AD	4Ø	Ø3	40 E9	ØØ	8D	על 31
10B1:40	Ø3	4C	BB	1Ø	A9	Ø1	8D	
10B1:40	Ø3	AD	3F	Ø3	A9 8D	ØQ AT	DØ	AE Ø4
1069:41 10Cl:AD	4Ø	Ø3	3r	1Ø				
INCI ! AD	<b>₩</b>	כש	עס	שד	DØ	4C	31	8F

10C9:EA A2 17 ΑØ ØØ A9 5Ø C1 10D1:B0 A9 **D8** 85 B1 Α9 77 85 DØ **B5** AD 1 B **D4** A1 10D9:B4 A9 **D8** 85 C9 F7 C9 Ø2 9Ø 1ØE1:29 ØF ØØ FØ 1ØE9:FØ F3 C9 ØВ FØ EF 91 BØ 84 18 **A5** ВØ 69 28 85 66 10F1:91 **B4 A5** Bl 69 ØØ 85 B1 18 3 A 10F9:B0 11Ø1:A5 **B4** 69 28 85 **B4 A5 B5** D<sub>2</sub> 1109:69 ØØ 85 **B5** CA 1Ø CE 6Ø 8Ø ØØ ØØ ØØ ØØ ØØ ØØ ØØ 33 1111:00 1119:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 3B ØØ 18 ØØ Ø8 18 1Ø 25 1121:00 ØØ 78 3F 99 FC 67 FF F2 1129:1E 18 3C 1131:E6 4Ø FF Ø2 8Ø Ø1 ØØ ED 2B 1139:3C ØØ ØØ 18 ØØ ØØ 18 ØØ FF 8Ø ØØ ØØ ØØ ØØ ØØ F3 1141:01 ØØ 6B 1149:00 ØØ 73 ØØ ØØ 1151:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 7B 1159:00 ØØ 1161:00 ØØ ØØ 1C ØØ Ø4 18 2Ø **A5** F8 37 FF в7 7Ø 1 F 99 1169:ØE 18 Ø6 4Ø 3C Ø2 ØØ 79 1171:EC 6Ø FF 1179:3C ØØ ØØ 18 ØØ ØØ 18 ØØ 6B ØØ ØØ ØØ **A3** ØØ ØØ 1181:00 FF ØØ ØØ ØØ ØØ ØØ ØØ AB 1189:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ **B3** 1191:00 ØØ ØØ ØØ ØØ ØØ BB ØØ ØØ 1199:00 ØØ ØØ ØØ Ø2 18 ØØ BD 11A1:00 ØØ ØØ 1C D9 FØ 1F FF 33 11A9:07 18 ΕØ ØF 3C 1C 3Ø ØC ØØ AA 11B1:F8 38 FF 18 ØØ ØØ 18 ØØ AB 11B9:3C ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ 83 11C1:00 7E ØØ ØØ EB ØØ ØØ ØØ ØØ 11 C9 : ØØ ØØ 11D1:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ F3 ØØ FB ØØ ØØ ØØ ØØ ØØ 11D9:00 ØØ Ø3 18 ØØ 22 ØØ ØØ ØØ 1E 11E1:00 98 8Ø ØF DB ΕØ ØF FF 37 11E9:07 ØØ 7 E 38 18 3C 18 **C8** 11F1:FØ 1C 18 ØØ EB 18 ØØ ØØ 11F9:3C ØØ ØØ 1201:00 3C ØØ ØØ ØØ ØØ ØØ ØØ 34 ØØ ØØ ØØ ØØ 2D 1209:00 ØØ ØØ ØØ ØØ ØØ ØØ 35 ØØ 1211:00 ØØ 3D 1219:00 ØØ ØØ 5C ØØ DF 1221:00 ØØ ØØ 1E **E3** F9 ØØ Ø1 FF 8Ø ØЗ FF 1229:00 3C ΕØ ØØ 38 7E ΕØ Ø6 1231:CØ Ø7 1239:3C ØØ ØØ 18 ØØ ØØ 18 ØØ 2D ØØ ØØ ØØ ØØ ØØ 67 Ø8 ØØ 1241:00 6D ØØ ØØ ØØ ØØ 1249:00 ØØ ØØ ØØ 1251:00 øø øø øø øø ØØ ØØ ØØ 75

1259:00 00 00 00 00 00 00 00 00 7D 1261:00 00 00 18 00 00 18 00 37 1269:00 3C 00 00 3C 00 00 7E FC 1271:00 00 7E 00 00 7E 00 00 5F 1279:3C 00 00 18 00 00 18 00 00 6D 1281:00 18 00 00 00 00 00 00 00 AB 1289:00 00 00 00 00 00 00 00 00 B5 1299:00 00 00 00 00 00 00 00 B5 1299:00 00 00 00 00 00 00 00 BD 12A1:00 00 00 78 00 00 3A 00 C1 12A9:00 9F 00 01 FF 80 03 FF CD 12B1:C0 07 7E E0 07 3C 60 00 BF 12B9:3C 00 00 18 00 00 00 00 00 00 E9
1261:00 00 00 18 00 00 18 00 37 1269:00 3C 00 00 3C 00 00 7E FC 1271:00 00 7E 00 00 7E 00 00 5F 1279:3C 00 00 18 00 00 18 00 00 6D 1281:00 18 00 00 00 00 00 00 00 AB 1289:00 00 00 00 00 00 00 00 00 B5 1299:00 00 00 00 00 00 00 00 00 BD 12A1:00 00 00 00 00 00 3A 00 C1 12A9:00 9F 00 01 FF 80 03 FF CD 12B1:C0 07 7E E0 07 3C 60 00 BF 12B9:3C 00 00 18 00 00 18 00 00 AD
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1279:3C ØØ ØØ 18 ØØ ØØ 18 ØØ 6D 1281:0Ø 18 ØØ ØØ ØØ ØØ ØØ ØØ ØØ AB 1289:0Ø ØØ ØØ ØØ ØØ ØØ ØØ AD 1291:0Ø ØØ B5 1299:0Ø ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ BD 12A1:0Ø ØØ ØØ ØØ ØØ ØØ ØØ ØØ C1 12A9:0Ø 9F ØØ Ø1 FF 8Ø Ø3 FF CD 12B1:CØ Ø7 7E EØ Ø7 3C 6Ø ØØ BF 12B9:3C ØØ ØØ 18 ØØ ØØ AD
1281:00 18 00 00 00 00 00 00 AB 1289:00 00 00 00 00 00 00 AD 1291:00 00 00 00 00 00 00 00 B5 1299:00 00 00 00 00 00 00 00 BD 12A1:00 00 00 00 78 00 00 3A 00 C1 12A9:00 9F 00 01 FF 80 03 FF CD 12B1:C0 07 7E E0 07 3C 60 00 BF 12B9:3C 00 00 18 00 00 18 00 AD
1289:00 00 00 00 00 00 00 00 00 AD 1291:00 00 00 00 00 00 00 00 B5 1299:00 00 00 00 00 00 00 00 00 BD 12A1:00 00 00 78 00 00 3A 00 C1 12A9:00 9F 00 01 FF 80 03 FF CD 12B1:C0 07 7E E0 07 3C 60 00 BF 12B9:3C 00 00 18 00 00 18 00 AD
1291:00 00 00 00 00 00 00 00 00 B5 1299:00 00 00 00 00 00 00 00 00 BD 12A1:00 00 00 78 00 00 3A 00 C1 12A9:00 9F 00 01 FF 80 03 FF CD 12B1:C0 07 7E E0 07 3C 60 00 BF 12B9:3C 00 00 18 00 00 18 00 AD
1299:00 00 00 00 00 00 00 00 00 BD 12A1:00 00 00 78 00 00 3A 00 C1 12A9:00 9F 00 01 FF 80 03 FF CD 12B1:C0 07 7E E0 07 3C 60 00 BF 12B9:3C 00 00 18 00 00 18 00 AD
12A1:00 00 00 78 00 00 3A 00 C1 12A9:00 9F 00 01 FF 80 03 FF CD 12B1:C0 07 7E E0 07 3C 60 00 BF 12B9:3C 00 00 18 00 00 18 00 AD
12A9:00 9F 00 01 FF 80 03 FF CD 12B1:C0 07 7E E0 07 3C 60 00 BF 12B9:3C 00 00 18 00 00 18 00 AD
12B1:CØ Ø7 7E EØ Ø7 3C 6Ø ØØ BF 12B9:3C ØØ ØØ 18 ØØ ØØ 18 ØØ AD
12B9:3C 00 00 18 00 00 18 00 AD
12C9:00 00 00 00 00 00 00 00 ED
12D1:00 00 00 00 00 00 00 00 F5
12D9:00 00 00 00 00 00 00 00 FD
12E1:00 00 00 78 00 00 18 C0 7E
12E9:01 19 EØ Ø7 DB FØ ØF FF 22
12F1:FØ 1C 7E 38 18 3C 18 ØØ CA
12F9:3C 00 00 18 00 00 18 00 ED
1301:00 3C 00 00 00 00 00 00 36
1309:00 00 00 00 00 00 00 00 2F
1311:00 00 00 00 00 00 00 00 37
1319:00 00 00 00 00 00 00 3F
1321:00 00 00 38 00 00 18 40 3B
1329:07 18 EØ ØF 9B FØ 1F FF C4
1331:F8 38 FF 1C 3Ø 3C ØC ØØ 2E
1339:3C ØØ ØØ 18 ØØ ØØ 18 ØØ 2F
1341:00 7E 00 00 00 00 00 00 07
1349:00 00 00 00 00 00 00 00 6F
1351:00 00 00 00 00 00 00 00 77
1359:00 00 00 00 00 00 00 00 7F
1361:00 00 00 38 00 04 18 20 6B
1369:ØE 18 70 1F 99 F8 37 FF BB
1371:EC 60 FF 06 40 3C 02 00 7D
1379:3C ØØ ØØ 18 ØØ ØØ 18 ØØ 6F
1381:00 FF 00 00 00 00 00 00 A7
1389:00 00 00 00 00 00 00 AF
1391:00 00 00 00 00 00 00 B7
1399:00 00 00 00 00 00 00 BF
13A1:00 00 00 18 00 08 18 10 A9
13A9:1E 18 78 3F 99 FC 67 FF 77
13B1:E6 40 FF 02 80 3C 01 00 72
13B9:3C ØØ ØØ 18 ØØ ØØ 18 ØØ AF
13C1:01 FF 80 00 00 00 00 00 78
13C9:00 00 00 00 00 00 00 FF EF
13D1:FF C3 C3 C3 C3 FF FF FF BB
13D9:3C 18 18 18 18 3C FF 00 5A

13E1:3C 7E FF FF 7E 3C 00 13 BD 13E9:1D 1D 1D 1D 1D 1D 1D 10 13F1:1D 1D 1D 1D 1D 48 49 47 47 13F9:48 3A 2Ø ØØ Ø6 31 20 ØE 1A 1401:0F 12 0D 01 ØC Ø6 33 2Ø E5 1409:05 18 10 05 12 14 Ø6 37 3Ø 1411:20 11 15 09 14 20 20 13 35 1419:1D 1D 1D 1D 1D 1D 1D 41 1421:1D 1D 1D 1D 1D 1D 1D 1D 49 1429:1D 1D 1D 1D 1D 1D 1D 1D 51 1431:1D 1D 1D 45 53 47 47 3A 5F 1439:20 ØØ ØB Ø7 Ø5 C8 4Ø ØA 19 1441:00 9B 03 05 C8 14 ØF FØ A6 1449:FF FF ØØ ØØ 8Ø ØØ ØØ 75 1451:64 F3 3F ØØ ØØ ØA ØØ ØØ B8

### Program 7 **Miami Ice**

Load and run your copy of MLX from tape or disk. When you first run MLX, you'll be asked to supply a starting address and an ending address for Miami Ice. The addresses you'll need are

Starting address: 0801 Ending address: 1320

After entering all the data from the listing below, be sure to save at least one copy before you exit MLX.

#### Miami Ice

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
Ø8Ø1:ØC Ø8 ØA ØØ 9E 2Ø
                           3Ø
                        32
Ø8Ø9:36 32 ØØ ØØ ØØ
                     2Ø
                        EØ ØE
                              11
Ø811:20 BC ØD A9 ØØ
                    ΑØ
                        18 B9
                              Ø9
Ø819:A2 Ø8 99 ØØ D4
                    88 1Ø
                              9Ø
Ø821:2Ø C4 Ø8 2Ø
                 75
                     ØA AD Ø1 A5
Ø829:DC 29
           10 F0 F9
                     A2 ØØ AØ
                              FD
Ø831:1Ø 18 2Ø FØ FF
                     A9
                        E2
                          ΑØ
                              6F
Ø839:ØB 2Ø 1E AB A6
                     B4 E8
                          A9
                              D8
Ø841:ØØ 2Ø CD BD A9
                     C8 85
                           F8 63
Ø849:A9 ØØ 85 F9 2Ø D6 ØD
                          20 15
Ø851:52 ØA 2Ø 95 ØE A2 64 88 B6
Ø859:DØ FD CA DØ FA AD 1F
                           DØ
Ø861:AD 1E DØ AD Ø1
                    DC 29
                           10 A2
                              25
Ø869:DØ E8 A9 4Ø 8D
                    Ø4 D4 A9
Ø871:41 8D Ø4 D4 2Ø
                     1D Ø9
                           20 FA
Ø879:48 Ø9 CE 21 13
                     DØ
                        Ø9 AD 77
Ø881:22 13 8D 21
                     2Ø
                 13
                        95 ØE
                              7D
Ø889:CE 25
           13 DØ ØC
                    AD
                        26
                          13
Ø891:8D 25 13 2Ø 16
                     ØE 2Ø 4F 8E
Ø899:ØD AØ ØØ 88 DØ
                     FD 4C
                           75 6D
Ø8A1:Ø8 ØØ Ø5 ØØ Ø1
                     ØØ
                        19
                          FØ
                          ØØ 67
Ø8A9:ØØ 1E ØØ ØØ ØØ
                     89 ØØ
Ø8B1:ØA ØØ ØØ ØØ 2B
                              25
                     ØØ
                        ØØ
                           Ø5
Ø8B9:F1 4F 2Ø CD BD
                     Α9
                        2Ø
                           2Ø 6C
Ø8C1:D2 FF 6Ø A9
                 ØØ
                     85 C3 85
Ø8C9:C4 A9 ØØ 85 B4
                     A9
                        Ø3 85 D6
Ø8D1:BD A9 93 2Ø D2
                     FF A2 Ø3
                              7E
Ø8D9:8E 21 DØ E8 8E
                     2Ø DØ
                          A2 5B
                 2Ø
                     FØ
                        FF
                           Α9
                              EE
Ø8E1:07 AØ ØB 18
Ø8E9:EC AØ ØB 2Ø 1E AB A5
```

Ø8F1:18 69 31 8D A7 Ø5 A9 Ø8F9:2Ø 45 ØA AD Ø1 DC 4 A ВØ Ø9Ø1:ØA A5 **B4** C9 Ø6 FØ E7 E6 5F Ø9Ø9:B4 10 E3 4A ВØ Ø8 **A5 R4** 40 Ø911:FØ DC C6 **B4** 1Ø **D8** 4A 4A B9 Ø919:4A ВØ D3 60 C6 F7 DØ 26 DA Ø921:A9 **C8** 85 F7 **A5** F8 05 F9 7 F Ø929:FØ 1C **A5** F8 38 E9 Ø1 85 EF Ø931:F8 **A5** F9 E9 ØØ 85 F9 **A2 B3** Ø7 2Ø FØ Ø939:18 ΑØ 18 FF **A6** 4 D Ø941:F8 **A5** F9 2Ø BB Ø8 6Ø AD E6 Ø949:23 13 1Ø Ø5 49 FF 18 69 **E7** 85 Ø2 AD 24 Ø951:Ø1 13 1Ø 05 F2 Ø959:49 FF 18 69 Ø1 18 65 Ø2 DE Ø961:8D ØØ D4 AD 1F DØ 29 Ø8 46 Ø969:DØ 14 AD 1 E DØ 85 Ø2 29 4 A Ø971:ØA C9 ØA FØ Ø9 **A5** Ø2 29 57 Ø979:ØC C9 ØC FØ 3A 6Ø Α9 4Ø 7B Ø981:8D Ø4 D4 **A9** 8Ø 8D 12 **D4 C3** Ø989:A9 81 8D 12 **D4** A9 Ø8 8D 8E Ø991:2Ø 13 A9 Ø5 2Ø 45 ØA AD D<sub>5</sub> Ø999:2Ø 13 C9 ØD FØ Ø6 EE 2Ø 28 Ø9A1:13 4C 93 Ø9 Α9 07 8D 15 EC Ø9A9:DØ A9 64 2Ø 45 ØA C6 BD BA Ø9B1:FØ 5A 68 68 4C 4D Ø8 Α9 В7 Ø9B9:4Ø 8D 04 D4 Α9 ØØ 85 02 77 Ø9C1:A5 F8 Ø5 F9 FØ 32 **A5** F8 B9 Ø9C9:38 E9 Ø1 85 F8 **A5** F9 E9 27 85 Ø9D1:ØØ F9 **A5 B4** 85 Ø3 **E6** 87 Ø2 Ø9D9:C3 DØ **E6** C4 2Ø 52 ØA Ø6 Ø9E1:E6 Ø2 **A5** Ø2 8D Ø1 **D4** Α9 80 Ø9E9:4Ø 8D Ø4 D4 **A9** 41 8D Ø4 BE Ø9F1:D4 C6 10 ØЗ E2 4C Cl Ø9 56 Ø9F9:A9 40 8D Ø4 D4 E6 **B4** Α9 38 ØAØ1:64 2Ø 45 ØA A9 Ø5 8D Øl 16 ØAØ9: D4 4C 24 Ø8 2Ø 52 ØA A9 **A7** ØA11:00 8D 15 DØ **A2** ØC ΑØ Ø5 C3 ØA19:18 2Ø FØ FF A9 9E ΑØ ØB 73 ØA21:20 1E AB A2 ØВ 2Ø 38 ØA BF ØA29:A2 ØD 20 38 ØA AD Ø1 DC 3F ØA31:29 10 DØ F9 4C 21 Ø8 ΑØ 2F ØA39:05 18 2Ø FØ FF Α9 Cl ΑØ В3 ØA41:ØB 4C AB 85 1E Ø2 Α9 ØØ F3 ØA49:85 A2 **A5** A2 C5 Ø2 DØ FA 7A ØA51:60 Α9 9F 20 D2 FF A2 18 E9  $\mathbf{FF}$ ØA59:AØ 17 20 FØ 18 **A6** C3 21 ØA61:A5 C4 2Ø BB Ø8 **A2** 18 ΑØ **D4** ØA69:26 18 2Ø FØ FF **A6** BD A9 69 ØA71:00 4C CD BD **A9** 93 2Ø D2 DC ØA79:FF A9 Ø1 8D 21 DØ A9 Ø3 93

ØA81:8D	2Ø	DØ	<b>A2</b>	18	ΑØ	ØØ	18	Ø4
ØA89:2Ø	FØ	$\mathbf{FF}$	Α9	71	ΑØ	ØB	2Ø	C8
ØA91:1E	AB	ΑØ	27	А9	ΑØ	99	ØØ	29
ØA99:04	99	98	Ø7	Α9	Ø4	99	ØØ	2A
ØAA1:D8	99	98	DB	88	1Ø	ED	Α9	63
ØAA9:00	85	FB	85	FD	Α9	Ø4	85	1 B
ØAB1:FC	Α9	D8	85	FE	A2	18	ΑØ	75
ØAB9:00	A9	ΑØ	91	FB	ΑØ	27	91	Α7
ØAC1:FB	Α9	Ø4	91	FD	ΑØ	ØØ	91	DB
ØAC9:FD	A5	FB	18	69	28	85	FΒ	3A
ØAD1:A5	FC	69	ØØ	85	FC	Α5	FD	8E
ØAD9:18	69	28	85	FD	<b>A</b> 5	FE	69	9F
ØAE1:00	85	FE	CA	DØ	D1	Α9	ØØ	Ø5
ØAE9:85	FB	Α9	Ø4	85	FC	<b>A6</b>	В4	57
ØAF1:EØ	Ø7	9Ø	Ø2	<b>A2</b>	Ø6	BD	Ø9	1C
ØAF9:ØD	ØA	AΑ	BD	FB	ØC	85	Ø3	66
ØBØ1:BD	FC	ØC	85	Ø4	ΑØ	FF	C8	7A
ØBØ9:B1	ØЗ	DØ	19	C8	Bl	ØЗ	8D	Ø5
ØB11:02	DØ	8D	Ø4	DØ	8D	ØØ	DØ	DB
ØB19:C8	Bl	ØЗ	8D	ØЗ	DØ	8D	Ø5	В4
ØB21:DØ	8D	Ø1	DØ	6Ø	84	Ø2	48	91
ØB29:48	29	1 F	8D	28	13	68	4A	13
ØB31:4A	4A	4A	29	Ø6	AA	ΑØ	ØØ	F6
ØB39:68	1Ø	Ø2	ΑØ	ΑØ	8C	29	13	6E
ØB41:A5	FB	18	7D	37	ØC	85	FB	F4
ØB49:A5	FC	7D	38	ØC	85	FC	ΑØ	В5
ØB51:00	AD	29	13	FØ	11	91	FB	14
ØB59:A5	FB	85	FD	A5	FC	18	69	8C
ØB61:D4	85	FE	Α9	Ø4	91	FD	Α4	C4
ØB69:02	CE	28	13	DØ	D2	FØ	97	В5
ØB71:12	9F	54	49	4D	45	52	3A	F5
ØB79:2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	20	8F
ØB81:2Ø	2Ø	53	43	4F	52	45	3A	D6
ØB89:20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	9F
ØB91:2Ø	2Ø	43	41	52	53	3A	2Ø	ВØ
ØB99:2Ø	9D	94	2Ø	ØØ	12	9F	2Ø	63
ØBA1:92	47	41	4D	45	20	4F	56	6F
ØBA9:45	52	2Ø	2D	2Ø	5ø	52	45	F9
ØBB1:53	53	2Ø	46	49	52	45	42	ØF
ØBB9:55	54	54	4F	4E	12	2Ø	øø	ØA
ØBC1:12	9F	2Ø	2Ø	2Ø	20	2Ø	20	BØ
ØBC9:20	20	20	20	20	20	20	20	DF
ØBD1:20	20	20	20	20	20	20	20	E7
ØBD9:20	2Ø	2Ø	20	2Ø	20	20	20	EF
ØBE1:00	9C	12	53	43	52	45	45	C9
ØBE9:4E	20	ØØ	92	9C	4D	2Ø	49	FB
ØBF1:20	41	20	4D	20	49	20	20	C7
ØBF9:20	49	20	43	20	45	11	11	F3
ØCØ1:11	9D	9D	9D	9D	9D	9D	9D	D2
ØCØ9:9D	9D	9D	9D	9D	1F	53	43	38
むしむりょうひ	עכ	ענ	עכ	ענ	TL	"	3	50

ØC11:52 45 45 4E 2Ø 31 11 11 9D 9D 9D 9D ØC19:11 9D 9D EA ØC21:9D 9D 9D 9D 9D 5Ø 52 45 ØC29:53 53 20 46 49 52 45 42 88 ØC31:55 54 54 4F 4E ØØ D8  $\mathbf{F}\mathbf{F}$ AC ØC39:FF FF 28 ØØ Ø1 ØØ 4B  $\mathbf{F}\mathbf{F}$ F4 ØC41:86 CD ØØ 37 **B4** 6A D1 **A3** 1A ØC49:E6 66 C6 9Ø **A3** E6 65 86 5 A ØC51:C5 E3 CC A3 E6 ØØ FB 42 8A EC 47 25 ØC59:45 EE 8B 6A 43 48 ØC61:CD AA C2 Ø2 В4 45 65 ØØ Ø9 ØC69:2D C8 68 C3 45 A7 EB C3 F7 83 C3 ØC71:83 E4 E6 C3 83 E2 61 ØC79:A1 Ø4 83 47 E6 83 · C3 E3 F8 ØC81:C3 45 E5 AB 83 C6 83 AA 2D ØC89:83 C6 83 AA 83 C6 45 65 ØC91:83 ØØ FA BC 66 C6 Al E3 ØC ØC99:A2 C8 E1 27 E2 Al 65 C4 11 ØCA1:45 24 El 63 Ø5 EΑ C2 82 В3 ØCA9:EA 81 Cl E5 46 81 Ø5 E3 54 ØCB1:06 C2 E4 Al 82 AD 81 C1 F5 C2 82 ØCB9:A6 Α4 84 El Al 82 E1 ØCC1:A1 El 81 68 Ø5 C3 Al El 36 ØCC9:C3 EA Cl 81 E2 Ø6 Cl ØØ 81 ØCD1:DC 46 65 D3 E9 64 E2 81 FB 24 ØCD9:C1 EE 8E A2 AA 24 A4 43 ØCE1:C9 E8 64 EC ØØ 73 89 46 9B ØCE9:F2 82 El C2 EC C5 E2 C1 8A ØCF1:A2 C4 C2 AC Al 82 Bl ØØ C8 ØCF9:2D C8 3F ØC 46 ØC 59 ØC **A4** ØDØ1:6B ØC 95 ØC D3 ØC E8 ØC F3 ØDØ9:00 Ø6 Ø1 Ø5 Ø2 Ø4 ØЗ CE ØA DØ ØD11:27 13 39 Α9 Ø7 8D 27 DC ØD19:13 CE 2A 13 DØ ØF A9 4B 48 2A 13 ØD21:8D AD 26 13 C9 Ø7 El ØD29:FØ ØЗ EE 26 13 AD 23 13 65 ØD31:FØ ØB 1Ø Ø6 EE 23 13 4C 5F ØD39:3E ØD CE 23 13 AD 24 13 6C 24 ØD41:FØ ØB 1Ø Ø6 EE 13 4C 73 ØD49:4E ØD CE 24 13 6Ø AE 20 81 ØD51:13 AD 23 13 18 7D 77 ØD A8 ØD59:C9 46 90 04 C9 В9 9Ø Ø3 95 23 24 ØD61:8D 13 AD 13 18 7D 63 ØD69:7F ØD C9 46 9Ø Ø4 C9 B9 Ø6 ØD71:9Ø Ø3 8D 24 13 60 Ø1 ØØ A4 ØD79:FF FF FF ØØ Ø1 Ø1 FF FF 9F ØD81:FF ØØ Ø1 Ø1 Ø1 ØØ Α9 Ø1 28 ØD89:8D 19 DØ AD 1B 13 8D Ø6 EB ØD91:DØ AD 1E 13 8D Ø7 DØ AD 4C ØD99:1C 13 ØA ØA ØA 8D 10 DØ DF

ØDA1:AD	2Ø	13	18	69	D4	8D	FB	34
ØDA9:07	Α9	FA	8D	12	DØ	AD	ØD	26
ØDB1:DC	29	Ø1	FØ	Ø3	4C	31	EΑ	4A
ØDB9:4C	BC	$\mathbf{FE}$	Α9	1 B	8D	11	DØ	A5
ØDCl:A9	7F	8D	ØD	DC	Α9	87	8D	3D
ØDC9:14	ØЗ	Α9	ØD	8D	15	ØЗ	Α9	25
ØDD1:81	8D	1A	DØ	60	Α9	ØØ	8D	97
ØDD9:1C	13	8D	23	13	8D	24	13	D4
ØDEl:A9	26	8D	1B	13	Α9	3C	8D	Ø3
ØDE9:1E	13	Α9	Ø7	8D	2Ø	13	Α5	36
ØDF1:A2	C5	<b>A2</b>	FØ	FC	Α9	ØF	8D	6C
ØDF9:15	DØ	Α9	64	8D	21	13	8D	F2
ØEØ1:22	13	Α9	Ø7	8D	25	13	8D	4D
ØEØ9:26	13	Α9	Ø7	8D	27	13	Α9	7B
ØE11:37	8D	2A	13	6Ø	2Ø	1Ø	ØD	53
ØE19:AD	23	13	3Ø	1 A	18	6D	1 A	6Ø
ØE21:13	8D	1A	13	AD	1B	13	69	Ø8
ØE29:00	8D	1B	13	AD	1C	13	69	AA
ØE31:00	8D	1C	13	4C	57	ØE	49	8A
ØE39:FF	69	Ø1	85	Ø2	AD	1A	13	36
ØE41:38	E5	Ø2	8D	1A	13	AD	1B	9 F
ØE49:13	E9	ØØ	8D	1B	13	AD	1C	DE
ØE51:13	E9	ØØ	8D	10	13	AD	24	F6
ØE59:13	3Ø	18	18	6D	1D	13	8D	23
ØE61:1D	13	AD	1E	13	69	ØØ	8D	34
ØE69:1E	13	AD	1F	13	69	ØØ	8D	CC
ØE71:1F	13	6Ø	49	FF	18	69	Ø1	В6
ØE79:85	Ø2	AD	1D	13	38	E5	Ø2	A7
ØE81:8D	1D	13	AD	1E	13	E9	øø	F9
ØE89:8D	1E	13	AD	1F	13	E9	øø	4A
ØE91:8D	1F	13	6Ø	AD	Ø1	DC	4A	1 A
ØE99:4A	4A	BØ	12	2Ø	D3	ØE	EE	FF
ØEA1:20	13	AE	2Ø	13	EØ	Ø8	DØ	67
ØEA9:05	A2	ØØ	8E	2Ø	13	4A	ВØ	6C
ØEB1:ØD	20	D3	ØE	CE	20	13	1ø	E4
ØEB9:05	A2	Ø7	8E	20	13	4A	ВØ	5D
ØEC1:10	AD	26	13	C9	Ø2	FØ	ø9	88
ØEC9:CE	26	13	AD	26	13	8D	25	D1
ØED1:13	6ø	48	A9	8ø	8D	ØB	D4	58
ØED9:A9	81	8D	ØВ	D4	68	6Ø	ΑØ	37
ØEE1:ØØ	В9	5A	ØF	99	ØØ	35	B9	99
ØEE9:5A	1ø	99	ØØ	36	В9	5A	11	C8
ØEF1:99	ØØ	37	B9	5A	12	99	ØØ	AB
ØEF9:38	A9	ØØ	99	ØØ	39	88	DØ	FC
ØFØ1:EØ	ΑØ	3F	В9	DA	12	99	8Ø	ØE
ØFØ9:39	88	10	F7	AØ	Ø2	A9	FF	C7
ØF11:99	ØØ	39	99	3C	39	88	1ø	A4
ØF19:F7	ΑØ	36	A9	8Ø	99	Ø3	39	66
ØF21:88	88	88	1ø	F8	A9	ØC	8D	СВ
ØF29:5C	39	8D	62	39	A2	E4	8E	48
D1 29 . JC	5)	J	J 2	5)	* 75			

ØF31:F9 Ø7 E8 8E FA Ø7 E8 8E 68 ØF39:F8 Ø7 ΑØ ØЗ В9 56 99 ØF **B8** ØF41:27 DØ 88 10 F7 **A9** Ø8 8D 3D ØF49:1C DØ Α9 ØØ 8D 25 DØ Α9 2B ØF51:07 8D 26 6Ø DØ Ø2 ØØ Ø2 35 ØF59:02 øø øø ØØ ØØ ØØ ØØ ØØ 78 ØF61:00 ØØ ØØ ØØ 1Ø ØØ ØØ 6Ø 6Ø 28 ØF69:00 ØØ ØØ ØØ Α9 Ø4 Ø2 3D ØF71:84 14 8A ØØ 52 **8**A ØØ 4B **8**A ØF79:EØ ØØ 2F ΑØ ØØ 2A 84 ØØ Α9 ØF81:ØA 14 ØØ Ø2 5Ø ØØ ØØ 4Ø 8C ØF89:00 00 ØØ ØØ ØØ ØØ ØØ ØØ **A7** ØF91:00 00 ØØ ØØ ØØ ØØ ØØ ØØ AF ØF99:00 ØØ ØØ ØØ 21 Ø1 ØØ Ø1 45 ØFAl:A9 ØØ Ø1 21 ØØ ØØ 2Ø ØØ Ø7 2Ø ØFA9:00 ØØ ØØ 2Ø ØØ ØØ 2Ø FØ ØFB1:ØØ ØØ 2Ø ØØ ØØ **A8** ØØ ØØ 76 ØFB9:B8 ØØ ØØ В8 ØØ Ø4 B8 4Ø 81 ØFC1:05 **A9** 40 Ø5 Α9 40 Ø4 A8 24 ØFC9:40 ØØ ØØ ØØ ØØ ØØ ØØ ØØ Ø8 ØFD1:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ EF ØØ ØØ ØFD9:00 ØØ ØØ ØØ ØØ ØØ F7 ØFE1:00 ØØ Ø4 ØØ ØØ Ø9 ØØ ØØ **A4** ØFE9:28 ØØ ØØ 6A ØØ ØØ 12 8Ø 67 ØFF1:10 ØØ A2 14 ØØ 2B 85 ØØ 65 ØFF9:ØB El ØØ ØA E8 ØØ 12 **A8** CA 1001:00 14 ΑØ ØØ Ø5 8Ø ØØ Ø1 65 29 1009:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 1011:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 31 1019:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 39 1021:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 41 ØØ 1029:00 00 ØØ ØØ 54 ØØ ØØ 9A 1031:54 40 ØØ 10 40 ØA A8 AA **B2** 1039:AB E8 AA AB **E8** 40 ØA A8 7E 1041:40 00 1Ø ØØ ØØ 54 ØØ ØØ D4 1049:54 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 93 1051:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 71 1059:00 00 øø øø ØØ ØØ ØØ ØØ 79 1061:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 81 1069:00 00 ØØ ØØ Ø1 ØØ ØØ Ø5 96 1071:80 00 14 AØ ØØ 12 E8 ØØ 78 1079:0B E8 ØØ ØB Al ØØ 2A 85 FØ 1081:00 A2 14 12 8Ø 10 6A ØØ Ø7 28 Ø9 1089:00 ØØ ØØ ØØ ØØ Ø4 FF 1091:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ Bl 1099:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ **B9** 1ØA1 : ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ Cl 10A9:00 ØØ ØØ Ø4 **A8** 40 Ø5 **A9** Ø4 40 10B1:40 Ø5 Α9 Ø4 40 **B8** ØØ EF 10B9:B8 00 ØØ B8 ØØ ØØ A8 ØØ 13

10Cl:00	<b>A8</b>	ØØ	ØØ	2Ø	ØØ	ØØ	20	2D	
10C9:00	ØØ	2Ø	ØØ	ØØ	2Ø	ØØ	Ø1	6F	
1ØD1:21	ØØ	Ø1	Α9	ØØ	Ø1	21	ØØ	83	
10D9:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	F9	
10E1:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	Ø2	
10E9:00	ØØ	ØØ	ØØ	40	ØØ	Ø2	5Ø	6Ø	
10F1:00	ØA	14	ØØ	2B	84	ØØ	2B	AD	
10F9:E0	ØØ	4A	ΕØ	ØØ	52	A8	ØØ	7C	
1101:14	8A	ØØ	Ø4	Ø2	84	ØØ	ØØ	32	
1109:A9	ØØ	ØØ	28	ØØ	ØØ	6Ø	ØØ	43	
1111:00	1Ø	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	37	
1119:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	3B	
1121:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	43	
1129:00	ØØ	ØØ	15	ØØ	ØØ	15	ØØ	C6	
1131:00	Ø4	ØØ	Ø1	2A	ΑØ	Ø1	2B	65	
1139:EA	AA	2B	EA	AA	2A	ΑØ	Ø1	CF	
1141:04	ØØ	Ø1	15	ØØ	ØØ	15	ØØ	Ø1	
1149:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	6B	
1151:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	73	
1159:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	7B	
1161:01	ØØ	ØØ	Ø7	40	1ø	Ø7	40	Ø5	
1169:10	Ø1	ØØ	Ø1	3Ø	28	ø8	8Ø	96	
1171:38	Ø2	8Ø	CØ	Ø4	A2	Ø3	ØØ	FC	
1179:98	Ø1	ØC	AB	øi	Ø2	A8	8Ø	46	
1181:04	22	ВØ	Ø3	ØØ	6Ø	ØC	10	1E	
1189:00	28	CØ	40	2Ø	Ø1	DØ	CØ	39	
1191:01	DØ	ØØ	ØØ	4ø	øø	ØØ	ØØ	6A	
1199:00	ØØ	øø	ØØ	øø	ø1	ØØ	40	FF	
11A1:07	40	4ø	Ø7	4ø	ØØ	31	ØØ	34	
11 A9 : Ø4	ØØ	ØA	20	ØØ	ØE	ØØ	8Ø	C9	
11B1:00	Ø2	88	CØ	42	2A	83	ØØ	33	
11B9:A8	ØØ	3Ø	2B	2Ø	Ø2	A8	ØC	4 F	
11C1:10	20	8Ø	ØØ	ØØ	28	Ø3	ØØ	AA	
11C9:4Ø	3ø	ØØ	ØØ	ØØ	īø	1ø	83	FB	
11D1:00	74	ΑØ	ØØ	74	ØØ	ØØ	10	D8	
11D9:00	ØØ	Ø7	40	40	Ø1	ØØ	ØØ	E6	
11E1:00	øø	ø4	3Ø	øø	ØØ	ØØ	ØØ	87	
11E9:8Ø	ØØ	øø	Ø2	8Ø	ØØ	ØØ	8A	FA	
11F1:8Ø	ØØ	2A	ØС	42	Ø8	Ø3	Ø2	94	
11F9:8B	ØØ	СØ	20	EØ	CA	28	ø3	81	
12Ø1:DØ	A8	ØØ	Ø2	ØØ	28	3Ø	2Ø	F8	
1209:02	ØC	ØØ	40	CØ	ØØ	ØØ	ØØ	3B	
1211:10	Ø1	Ø3	ØØ	Ø7	8Ø	ØØ	Ø7	1F	
1219:00	ØØ	Ø1	ØØ	1ø	3Ø	øø	øø	9E	
1221:00	ØØ	ØØ	ØØ	ØØ	Ø2	88	ØØ	5E	
1229:00	20	ØØ	ØØ	32	ΑØ	ØØ	ØA	74	
1231:03	ØØ	ØØ	8Ø	ØØ	82	ØØ	Ø2	EA	
1231:03 1239:A8	ØØ	20	Ø8	EØ	3A	ØØ	ØØ	26	
1239:A8 1241:28	Ø2	Ø8	40	Ø2	Ø2	ØØ	2Ø	37	
1249:00	ØØ	ØØ	ØØ	3Ø	ØØ	10	ØØ	ØF	
	~ ~	~~	~~		~ ~		~ ~	~ -	

1251:00 00 00 10 00 03 ØØ Ø1 1259:00 40 3Ø ØØ ØØ ØØ ØØ Ø8 9B 1261:00 00 0A 00 ØØ ØØ Ø8 ØØ D6 1269:00 30 2A ØØ ØØ AØ ØØ ØØ 61 1271:00 ØA ØØ 2Ø Ø2 ØØ 8Ø ØØ 2B 1279:Ø8 AØ 2Ø ØØ **B8** CC ØØ ØØ C<sub>6</sub> 1281:28 ØØ ØØ 2Ø ØØ Ø2 ØØ Ø2 C5 22 1289:00 ØØ ØØ ØØ ØØ ØØ CØ **B2** 1291:00 øø øø ØØ Ø1 ØØ 10 ØØ DD 1299:ØØ Ø8 3Ø ØØ 28 ØØ ØØ ØØ Ø7 12A1:00 ØØ ØØ Ø2 ØØ ØØ ØC ØØ FD 12A9:00 00 0A A0 ØØ ØØ 8Ø 1 A 12B1:00 00 00 02 ØØ ØØ Ø8 ØØ Ø6 12B9:00 0A 80 ØØ ØВ 3Ø ØØ 2Ø Α9 12C1:00 00 ØØ ØØ ØØ ØØ ØØ ØØ E5 12C9:00 00 00 00 ØØ ØØ ØØ ØØ ED 12D1:00 00 Ø8 Ø2 Ø1 ØØ 12 ØØ 43 12D9:00 00 00 00 3F FF FC 5F 51 5F FF 12El:FF FA FA 6F FF F6 3D 12E9:6F FF F6 77 FF EE 77 FF **C6** 12F1:EE 7B FF DE 7B F3 DE 7C 40 12F9:00 3E 7B F3 DE 7B FF DE 20 1301:77 FF EE 77 FFEE 6F FF 1309:F6 6F FF F6 5F FF FA 5F 46 1311:FF FA 3F FF FC ØØ ØØ ØØ 1319:FF ØØ ØØ ØØ ØØ ØØ ØØ ØØ 3F



# Chapter 3 The Source Code



# An Introduction to Assemblers

Todd Heimarck

If you plan to get into machine language, you need an assembler. Here's an overview of features to consider before purchasing one—and an up-to-date list of commercially available assemblers.

A machine language assembler turns *source code* written by a programmer into *object code*, the program which can be executed by the computer. (Source code is sometimes referred to as assembly language because it's a language for communicating with assemblers.)

If you're in the market for a machine language (ML) assembler, here's a brief introduction to the features you should expect to find.

#### Two Parts

Many assemblers have at least two parts—the assembler itself and an editor program. A standard editor allows you to enter source code, insert lines, delete lines, print out the program, and save a file to disk. It may be a separate program, or it may be built into the assembler.

An editor program is similar to a word processor, and, in some cases, you can substitute your favorite word processor if its files—usually sequential ASCII—are compatible with the files used by the assembler. The advantage of this is that you don't have to learn a new set of commands for using the assembler's text editor.

But there's a disadvantage as well. If the editor and assembler are separate programs, writing an ML program takes several steps. You have to load the editor before typing in the program. Once the program's finished, you have to save it to disk, then load the assembler, and finally assemble the file into object code. To make changes to the program—if there are bugs, for example—you have to go back to the editor, load the file, and edit it.

An integrated editor/assembler gives you both programs in memory at the same time. It's not necessary to go through the process of loading one, then loading the other, switching back and forth as you develop a program. Having both available saves time, especially for programmers who like to write a few lines, assemble them, test the program, make a few changes, and continue from there. One disadvantage of an integrated package is that two programs take up more memory than a single program; you may have less memory available for storing the source code.

In addition to separate editors and integrated editor/ assemblers, there's a third type. Some assemblers let you create source code with the built-in BASIC editor. You write and edit the source code with line numbers, as if it were a BASIC program. To look at the program, you LIST it. To save to disk, just SAVE. Relying on the BASIC editor means it's not necessary to load a separate program that takes up valuable memory. With this kind of assembler, you can usually have your favorite programming utilities (like COMPUTE! Publications' "BASIC Aid" and "MetaBASIC," or Commodore's "DOS Wedge") in memory at the same time as the assembler and thus have such additional conveniences as automatic line numbering.

When you're writing ML programs, you'll be spending a lot of time in the editor, so it's important to find one you feel comfortable with. Some programmers prefer an editor that's like a word processor, while others lean to assemblers that let you write with the built-in BASIC editor.

#### Remember the Mnemonics

The source code for an ML program is made up of *mnemonics*, English-like abbreviations for ML instructions. On eight-bit Commodore machines, including the 64 and 128, all mnemonics are three letters (an exception is CP/M mode on the 128).

The three-letter abbreviation for "LoaD the Accumulator with a number" is LDA. In source code, for example, the line LDA #0 means load the number 0 into the accumulator, a register inside the main chip. When the file is assembled, the source code instruction LDA #0 is turned into the object code (numbers) 169 and 0. The primary task of an assembler is this translation from mnemonics to numbers.

A disk-based assembler requires the source code to be

stored on disk. When it comes time to assemble, you save the file and tell the assembler to start creating the object code from the source code on disk. RAM-based assemblers (which almost always have a disk option as well) read through the source code in memory. RAM-based assemblers are much faster than disk-based assemblers, which are hampered by Commodore's traditionally slow serial communications.

Depending on your instructions to the assembler, the object code (the executable ML program) can be sent to a disk file or to memory. When a program is assembled to disk, you have to load the program before testing it. If the assembler places the object code directly in memory, you can SYS to it immediately after assembly.

In BASIC, GOTO and GOSUB require a line number reference—GOTO 500, for instance. The corresponding ML instructions JMP (jump) and JSR (jump to subroutine) are followed by memory addresses, which serve the same function as line numbers in a BASIC program. But in a source code file, the current memory location (also known as the program counter) is not usually evident (the source code listings in this book are an exception—the memory location of each instruction is at the far left of the column). You may have a general subroutine for reading the joystick, but if you don't know the exact starting address, you can't JSR to it in the program.

#### Labeling

Assemblers solve this problem by allowing *labels* within your source code. You place the label at the beginning of a subroutine, and elsewhere in the program you can call it by name. You might label the joystick routine something like READJOY and then JSR READJOY when you need to use it. Labels are also used extensively within loops and branches.

Equates are another sort of label. At the start of the program, you can give names to important memory locations, so you can use a name instead of a number. The screen background color on the 64 is stored in 53281, which could be called BACKGROUND. To modify the screen color, you would store a value into BACKGROUND. When the assembler got to that line, it would know that BACKGROUND stands for location 53281.

Assemblers that allow labels and equates are usually advertised as two-pass, three-pass, or label-based. In the first pass

through the source file, the assembler sets up a list of labels and the equivalent memory locations or values. During the final pass, the file is assembled and the numbers are substituted for the labels.

The Commodore 128 includes the MONITOR command, which enables the built-in machine language monitor. Although the 64 doesn't come with a monitor, programs like *Micromon* and *Supermon* are widely available.

Monitors generally have a *simple assembler*, which is suitable for writing short routines, but lacking many features found in a full-fledged assembler. Simple assemblers don't support labels, for one thing, leaving it up to the programmer to calculate the addresses where subroutines start and end. Another shortcoming is that it's often difficult to insert new lines or make corrections; if an assembler/editor is like a word processor, then a monitor is like a typewriter—to add a sentence may require retyping the whole page.

The commands for disassembly and memory display make ML monitors useful for debugging, though, so some assemblers for the 64 include a monitor to complement the other programs in the package.

#### What to Look For

At the very least, a stripped-down assembler should include the following features:

- A way to type, save, and load source files, whether it's a separate editor or the built-in BASIC editor.
- Assembly from disk or memory, with object files written to disk or memory.
- Labels and equates.
- Error checking, to flag misspelled labels, duplicate labels, and syntax mistakes.

In addition, many assemblers offer additional features like macro-instructions—usually called *macros* for short. A macro is essentially a fill-in-the-blanks miniprogram. A macro that opens a sequential file for reading, for example, might call several ROM routines and leave a blank for the filename. Within your source code, you would provide the name of the OPEN macro and tell it the name of the file to be opened for reading. When the assembler assembled that line, it would find the

macro in the library and insert as many instructions as necessary in the object code; it would also fill in the name of the sequential file you wanted to open for reading. Macros, however, are often rather cumbersome to use—the complexities of passing parameters to them can make them more trouble than they're worth.

Most assemblers allow you to insert comments in the source file. These notes to yourself are like REM statements in BASIC. Some assemblers offer conditional assembly, which is helpful if you're writing for several different systems, a 64 and a 128, for example. Like macros, however, conditional assembly is an additional level of complexity (and thus an additional potential source of bugs). Writing dual-purpose source code is, many programmers think, of dubious value.

Some also include utility programs. An unassembler, for example, reads an object file and turns it into source code which can be loaded, edited, and reassembled. You may also find a disk disassembler, which reads a machine language file directly from disk and lists it out as mnemonics. Occasionally, an assembler package will include the source code for the assembler itself. This is valuable because you can study the program (if you're just learning ML) or change the program, adding new features (if you're beyond the beginner's stage). That's why we've included the complete source code for the seven games in this book.

One final note: In many cases, source files are not compatible between different assemblers. If you plan to trade source code with a friend, it would be a good idea to use the same assembler. This is also true if you're studying ML in a class sponsored by a college or a user group.

What follows is a list of commercial assemblers for the Commodore 64 and 128. For more information, contact the manufacturer.

Hughes Associates Abacus Software P.O. Box 7211 45341 Harmony Lane Belleville, MI 48111 Grand Rapids, MI 49510 (313) 699-1931 (616) 241-5510 Assembler Monitor 64 (64) Freedom Assembler \$39.95 (64) \$39.95 \$49.95 (128) Aguarian Software P.O. Box 22184 Micol Systems 9 Lynch Road Portland, OR 97222 Toronto, Ontario (503) 654-2641 Total Software Development System Canada M2I 2V6 (64 and 128 versions on same disk) (416) 495-6864 M-2000 Machine Language Develor-\$49.95 Instant Editor Assembler (64) ment System (64) \$49.95 \$17.95 Nu-Age Software Commodore Business Machines 2311-28th Street N. 1200 Wilson Drive St. Petersburg, FL 33713 West Chester, PA 19380 (813) 323-8389 (215) 431-9100 Rebel Assembler Editor (64) Commodore 64 Macro Assembler Development System (64) \$29.95 \$49.95 Pro-Line Software: Ltd. **COMPUTE!** Publications 755 The Queensway East Unit 8 P.O. Box 5038 Mississauga, Ontario F.D.R. Station New York, NY 10150 Canada L4Y 4C5 (416) 273-6350 (800) 346-6767 PAL (64) (212) 887-8575 (in NY) \$49.95 LADS (64/128) Buddy 128 Assembler (128) \$12.95-\$16.95, depending on version (plus shipping) \$69.95 Eastern House Software Robin's Software 10349 Zinran Circle 3239 Linda Drive Bloomington, MN 55438 Winston-Salem, NC 27106 (612) 944-8654 (919) 748-8446 Instant Editor Assembler (64) MAE Macro Assembler/Text Editor \$5.00 plus \$2.00 shipping and handling \$19.95 (plus shipping) Roger Wagner Publishing FS! Software P.O. Box 635 P.O. Box 582 Santee, CA 92071 Faribault, MN 55021 (619) 562-3221 (507) 332-8122 Merlin 64 Macro Assembler (64) The Machine Shop (64) \$49.95 \$39.95

# The Source Code

The source code for each of the seven games in *COMPUTE!'s Machine Language Games for the Commodore 64* was originally developed at COMPUTE! Publications using the *PAL* assembler from Pro-Line Software.

PAL uses several pseudo-ops, such as .ASC and .WORD, that aren't found in most other assemblers. Most pseudo-ops, however, are in standard MOS 6502 notation: \*= updates the program counter (some assemblers use .ORG instead); .BYT or .BYTE assembles a list of numbers (some assemblers use .DB or .DW); .WOR or .WORD assembles a list of addresses into low-byte/high-byte format; .ASC is used to assemble an ASCII character string (many assemblers use .BYTE for this also); the pseudo-op < extracts the low byte of a 16-bit expression, while > extracts the high byte of the low byte of a 16-bit expression (some assemblers reverse the use of < and >, and others use \$255 and /256 for the same effect); and = is used to assign an expression to a label (some assemblers use .EQU).

You'll find comments in almost every game's source code, though some are more heavily commented than others. You needn't type them in (if that's what you're using the source code for), but if you do, remember to precede each comment with a semicolon (;).

Since all source code was written with *PAL*, it's not surprising that the listings which follow are also in *PAL* format. The listings aren't source code in the strictest sense, but rather source code that has been assembled by *PAL*. Your assembler may display things differently.

Here's a typical line from the listing for "CUT-OFF!" (the boldface headings indicate each column's content). Note that pseudo-ops like .ASC and .BYT don't have a final operand, but instead list the ASCII string or a series of numbers.

AddressOpcodeOperandLabelMnemonicOperandC006AD42 03MAINLOOPLDASTEPS

#### Notes on the Code

As mentioned above, the listings that follow show the assembled source code, not the raw source code you would actually enter for your assembler. Thus, you can't type the listings in the format shown. To enter the code so that you can assemble it yourself, you'll need to know the source code format your assembler expects. For example, for Commodore's Macro Assembler Development System you would type in just the labels, mnemonics, and operands (the three rightmost columns of the listings). PAL, on the other hand, requires a line number (just like BASIC) before every line, but allows you to use the colon to combine more than one instruction per line.

You'll come across some odd-looking characters in several of the games' listings. These characters, limited to the .ASC pseudo-op, are found only within quotation marks ("). They're not meant to be typed in as shown, but instead represent key(s) you should press.

Words within braces are the most common such characters: {DOWN} means to press the cursor-down key; {5 LEFT} means to press the cursor-left key five times.

To indicate that a key should be *shifted* (hold down the SHIFT key while pressing another key), the character is underlined. For example,  $\underline{A}$  means hold down the SHIFT key and press A. You may see strange characters on your screen, but that's to be expected. If you find a pair of braces enclosing a number followed by an underlined key, for instance,  $\{8\ \underline{A}\}$ , type the key as many times as indicated (in the example, enter eight SHIFTed A's).

If a key is enclosed in special brackets, [<>], hold down the Commodore key (at the lower-left corner of the keyboard) and press the indicated character.

Refer to the following table:

#### The Source Code

When You			When You		
Read:	Press:	See:	Read:	Press:	See:
{CLR}	SHIFT CLR/HOME	4	[ 1 3]	COMMODORE	1 44.
{HOME}	CLR/HOME	155	<b>E</b> 2 3	COMMODORE	2
{UP}	SHIFT   † CRSR	-	<b>[</b> 3 <b>]</b>	COMMODORE	3
{DOWN}	↑ CRSR ↓	<b>(1</b> )	<b>[</b> 4 <b>]</b>	COMMODORE	4
{LEFT}	SHIFT ← CRSR →		<b>£</b> 5 <b>3</b>	COMMODORE	5
{RIGHT}	← CRSR →		E 6 3	COMMODORE	6
{RVS}	CTRL 9	R	<b>€</b> 7 <b>3</b>	COMMODORE	7
{OFF}	CTRL 0		<b>[</b> 8 <b>3</b> ]	COMMODORE	8
{BLK}	CTRL 1		{ F1 }	f1	
{WHT}	CTRL 2	Ī	{ F2 }	SHIFT f1	
{RED}	CTRL 3		{ <b>F3</b> }	f3	
{CYN}	CTRL 4		{ <b>F4</b> }	SHIFT f3	
{PUR}	CTRL 5	<b>**</b>	{ <b>F5</b> }	f5	
{GRN}	CTRL 6	ñ	{ <b>F6</b> }	SHIFT f5	
{BLU}	CTRL 7	Œ	{ <b>F</b> 7 }	£7	
{YEL}	CTRL 8	m	{ F8 }	SHIFT f7	
			4	•	#
			<u>†</u>	SHIFT	

## CUT-OFF! Source Code

Source code by Tom R. Halfhill

						_	
			\$C0000 \$F7 \$FD \$FB 0 2 5 6 115 828 829 831 833 834 836 837 838 844 845 56321 56320 \$FFD0 \$FFF0 \$BDCD 54296 54276 54278 54277 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54277 54278 54278 54278 54278 54277 54278 54278 54277 54278 54278 54278 54278 54277 54278 54278 54277 54278 5				
0000			<b>60000</b>	0040 00 00		CNAD	<b>"</b> 0
CUUU	NEVIDOC	-=	\$0000	C040 C9 00		DEO	#0 OUTLOOP
C000	NEX IPUS	=	Φr/	CO44 20 DE CO		DEU	NEWCODECN
C000	SHAM	=	\$FD	0047 20 BE CU		JSK	NEWSCREEN
C000	CHAM	_	\$FB	0044 40 00 00		JOH	SETUP
C000	BLACK	=	0	CU4A 4C 05 CU	NOUTA	JMP	MAINLOOP
C000	KED	=	2	CU4D 20 93 C3	NOHIII	JSK	MOVE
C000	GREEN	==	5	CU5U A9 UU		LUA	#0
C000	BLUE	_	6	C052 8D 41 03		SIA	PLAYER
C000	GRAY3	_	15	CU55 20 C4 C3		JSK	READJOY
C000	LEVEL	=	828	C058 A2 00		LDX	#0 (NEXTPOS,X)
C000	SCORE1	=	829	CU5A A1 F/		LUA	(NEXTPUS,X)
C000	SCORE2	==	831	C05C C9 20		CMP	#32
C000	PLAYER	=	833	C05E F0 20		BEQ	NOHIT2
C000	STEPS	=	834	C060 20 93 C3		JSR	MOVE
C000	LIVES1	=	836	C063 20 66 C5		JSR	CRASH
C000	LIVES2	=	837	C066 20 D0 C2		JSR	SCORE
C000	POS	=	838	C069 AD 44 03		LDA	LIVES1
C000	LATCH2	==	842	C06C C9 00		CMP	#0
C000	LATCH1	_	843	C06E F0 20		BEQ	OUTLOOP
C000	SHAPE2	=	844	C070 AD 45 03		LDA	LIVES2
C000	SHAPE1	==	845	C073 C9 00		CMP	#0
C000	JOY1	-	56321	C075 F0 19		BEQ	OUTLOOP
C000	JOY2	=	56320	C077 20 BE C0		JSR	NEWSCREEN
C000	CHROUT	=	\$FFD2	C07A 20 43 C4		JSR	SETUP
C000	PLOT	=	\$FFF0	C07D 4C 06 C0		JMP	MAINLOOP
C000	PRNUM	=	\$BDCD	C080 20 93 C3	NOHIT2	JSR	MOVE
C000	VOLUME	==	54296	C083 AD 01 DC		LDA	J0Y1
C000	Waveform	=	54276	C086 2D 00 DC		and	JOY2
C000	attack	==	54277	C089 29 10		and	#16
C000	RELEASE	=	54278	C08B F0 06		BEQ	FREEZE
C000	V1LO	=	54272	C08D 4C 06 C0		JMP	MAINLOOP
C000	V1HI	=	54273	C090 4C F4 C4	OUTLOOP	JMP	ENDGAME
C000	Border	=	53280	C093 AD 01 DC	FREEZE	LDA	JOY1
C000 20 C1 C1		JSR	NEWGAME	C096 2D 00 DC		and	JOY2
C003 4C 06 C0		JMP	MAINLOOP	C099 29 10		and	#16
;				C09B F0 F6		BEQ	FREEZE
; main loop				CO9D A2 FA		LDX	#250
;				C09F 20 8A C3		JSR	DELAY
C006 AD 42 03	MAINLOOP	LDA	STEPS	COA2 AD 01 DC	PAUSE	LDA	JOY1
C009 18		CLC		COA5 2D 00 DC		and	JOY2
C00A 69 01		ADC	#1	COA8 29 10		and	#16
C00C 8D 42 03		STA	STEPS	COAA DO F6		BNE	PAUSE
C00F AD 43 03		LDA	STEPS+1	COAC AD 01 DC	PAUSE2	LDA	J0Y1
C012 69 00		ADC	#0	COAF 2D 00 DC		AND	JOY2
C014 8D 43 03		STA	STEPS+1	C0B2 29 10		and	#16
C017 AE 3C 03		LDX	LEVEL	C0B4 F0 F6		BEQ	PAUSE2
C01A 20 8A C3		JSR	DELAY	COB6 A2 FA		LDX	#250
C01D A9 01		LDA	#1	COB8 20 8A C3		JSR	DELAY
C01F 8D 41 03		STA	Player	COBB 4C 06 CO		JMP	MAINLOOP
C022 20 C4 C3		JSR	readjoy	;			
C025 A2 02		LDX	#2 (NEXTPOS,X)	;newscreen routin	e		
C027 A1 F7		LDA	(NEXTPOS,X)	;			
C029 C9 20		CMP	#32	COBE A9 93	NEWSCREEN	LDA	#147
C02B F0 20		BEQ	NOHIT1	C0C0 20 D2 FF		JSR	CHROUT
C02D 20 93 C3		JSR	MOVE	COC3 A9 OF		LDA	#GRAY3
C030 20 66 C5		JSR	CRASH	C0C5 8D 20 D0		STA	53280
C033 20 D0 C2		JSR	SCORE	C0C8 8D 21 D0		STA	53281
C036 AD 44 03		LDA	LIVES1	C0CB A2 00		LDX	#0
C039 C9 00		CMP	#0	COCD A9 A0	LOOP1	LDA	#160
C03B F0 53		BEQ	OUTLOOP	COCF 9D 00 04		STA	1024,X
; main loop ; C006 AD 42 03 C009 18 C000 8D 42 03 C00F AD 43 03 C012 69 00 C014 8D 43 03 C017 AE 3C 03 C01A 20 8A C3 C01D A9 01 C01F 8D 41 03 C022 20 C4 C3 C025 A2 02 C027 A1 F7 C029 C9 20 C028 F0 20 C028 F0 20 C029 E0 20 30 C030 C030 C03 C030 C030 C03 C030 C030		LDA	#2 (NEXTPOS.X) #32 NOHIT1 MOVE CRASH SCORE LIVES1 #0 OUTLOOP LIVES2	C0D2 A9 00		LDA	#BLACK

#### The Source Code

C0D4 9D 00 D8 C0D7 E8		STA	55296.X	C169 A9 02		I DA	#RED 55761 #81 1479 #87 1489 #0 STEPS STEPS+1 #7 LATCH1 #11 LATCH2 #\$D1 POS #\$5
COD7 E8		INX	00200p.	C16B 8D D1 D9	ı	STA	55761
C0D8 E0 28		CPX	#40	C16E A9 51		LDA	#81
CODA DO F1		BNE	LOOP1	C170 8D C7 05		STA	1479
CODE AO AO	10000	LDX	#0	C173 A9 57		LDA	#87
CODE AS AU	LUUPZ	LDA	#1bU 1004 V	C175 8D D1 05		SIA	1489
COE3 A9 OO		I DA	1904,∧ #RI ∆∩K	C176 A9 UU		LUA CTA	#U CTEDC
COES 9D CO DB		STA	56256 X	C17D 8D 42 03		STA	STEPS 1
COE8 E8		INX	00200,71	C180 A9 07		LDA	#7
C0E9 E0 28		CPX	#40	C182 8D 4B 03		STA	LATCH1
COEB DO F1		BNE	L00P2	C185 A9 0B		LDA	#11
COED A9 00		LDA	#0	C187 8D 4A 03		STA	LATCH2
COEF 85 FD		STA	SRAM	C18A A9 D1		LDA	#\$D1
COF1 A9 U4		CTA	#4 CDANA I 1	C18C 8D 46 03		SIA	POS
COF5 A9 00		IDA	#N	C10F A9 03		CTA	# <b>ኔ</b> ፡፡ POS+1
C0F7 85 FB		STA	CRAM	C194 A9 C7		IDA	#\$C7
C0F9 A9 D8		LDA	#216	C196 8D 48 03		STA	DOC 12
COFB 85 FC		STA	CRAM + 1	C199 A9 05		LDA	#\$5
COFD A2 00		LDX	#0	C19B 8D 49 03		STA	POS+3
COFF A9 A0	LOOP3	LDA	#160	C19E 18		CLC	
C101 AU 00		LDY	#0	C19F A2 00		LDX	#0
C103 91 FD		SIA	(SHAM),Y	C1A1 AU U/		LDY	#7
C107 91 FB		STA	(CRAM) Y	C1A6 AF 3D 03		1DA 19H	PLUI CODE1
C109 AO 27		LDY	#39	C1A9 AD 3F 03		I DA	SCORE1 + 1
C10B A9 A0		LDA	#160	C1AC 20 CD BD		JSR	PRNUM
C10D 91 FD		STA	(SRAM),Y	C1AF 18		CLC	
C10F A9 00		LDA	#BLACK	C1B0 A2 00		LDX	#0
C111 91 FB		STA	(CRAM),Y	C1B2 A0 1D		LDY	#29
0113 18 0114 AS ED		CLC	CDAM	C1B4 20 F0 FF		JSR	PLOT
C116 69 28		ADC	SHAIVI #40	C1B/ AE 3F U3		LDX	SCORE2
0110 00 20		ADO	π <del>-1</del> 0	C10A AU 40 U3		LUA	SCUREZ T I
C118 85 FD		STA	SRAM	C1RD 20 CD RD		ICD	DDMIIMA
C118 85 FD C11A A5 FE		STA LDA	SRAM SRAM + 1	C1BD 20 CD BD C1C0 60		JSR RTS	PRNUM
C118 85 FD C11A A5 FE C11C 69 00		sta LDA ADC	SRAM SRAM+1 #0	C1BD 20 CD BD C1C0 60		JSR RTS	PRNUM
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE		STA LDA ADC STA	SRAM SRAM+1 #0 SRAM+1	C1BD 20 CD BD C1C0 60 ; ;newgame routing	ı	JSR RTS	PRNUM
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18		STA LDA ADC STA CLC	SRAM SRAM+1 #0 SRAM+1	C1BD 20 CD BD C1C0 60 ; ;newgame routine		JSR RTS	PRNUM
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB		STA LDA ADC STA CLC LDA	55296,X  #40 L00P1 #0 #160 1984,X #BLACK 56256,X  #40 L00P2 #0 SRAM #4 #0 CRAM+1 #0 (CRAM),Y #BLACK (CRAM),Y #39 #160 (SRAM),Y #BLACK (CRAM),Y	C1BD 20 CD BD C1C0 60 ; ;newgame routine ; C1C1 A9 00	NEWGAME	JSR RTS	PRNUM #0
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FR		STA LDA ADC STA CLC LDA ADC	SRAM SRAM+1 #0 SRAM+1 CRAM #40	C1BD 20 CD BD C1C0 60 ; ;newgame routine ; C1C1 A9 00 C1C3 8D 3D 03	NEWGAME	JSR RTS	#0 SCORE1
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC		STA LDA ADC STA CLC LDA ADC STA	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1	C1BD 20 CD BD C1C0 60 ; ;newgame routine ; C1C1 A9 00 C1C3 8D 3D 03 C1C6 8D 3E 03 C1C9 8D 3E 03	NEWGAME	JSR RTS LDA STA STA STA	#0 SCORE1 SCORE1+1
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00		STA LDA ADC STA CLC LDA ADC STA LDA ADC	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1	C1BD 20 CD BD C1C0 60 ; ;newgame routine ; C1C1 A9 00 C1C3 8D 3D 03 C1C6 8D 3E 03 C1C9 8D 3F 03 C1C9 8D 40 03	NEWGAME	JSR RTS LDA STA STA STA STA	#0 SCORE1 SCORE1+1 SCORE2 SCORE2+1
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC		STA LDA ADC STA CLC LDA ADC STA LDA ADC STA	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1 #0 CRAM+1	C1BD 20 CD BD C1C0 60 ; newgame routine : C1C1 A9 00 C1C3 8D 3D 03 C1C6 8D 3E 03 C1C9 8D 3F 03 C1CC 8D 40 03 C1CF A9 51	NEWGAME	JSR RTS LDA STA STA STA STA LDA	#0 SCORE1 SCORE1+1 SCORE2 SCORE2+1
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C129 E8		STA LDA ADC STA CLC LDA ADC STA LDA ADC STA INX	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1	C1BD 20 CD BD C1C0 60 ; newgame routine; C1C1 A9 00 C1C3 8D 3D 03 C1C6 8D 3F 03 C1C9 8D 3F 03 C1CC 8D 40 03 C1CF A9 51 C1D1 8D 4D 03	NEWGAME	JSR RTS LDA STA STA STA LDA STA	#0 SCORE1 SCORE1+1 SCORE2 SCORE2+1 #81 SHAPE1
C118 85 FD C11A A5 FE C11C 89 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C120 E8 C12E E0 19		STA LDA ADC STA CLC LDA ADC STA LDA ADC STA INX CPX	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1 #0 CRAM+1	C1BD 20 CD BD C1C0 60 ; newgame routine; ; C1C1 A9 00 C1C3 8D 3D 03 C1C6 8D 3E 03 C1C9 8D 3F 03 C1C7 A9 51 C1D1 8D 4D 03 C1D4 A9 57	NEWGAME	JSR RTS LDA STA STA STA LDA STA LDA	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SHAPE1#87
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C12D ED C13D 00 CD		STA LDA ADC STA CLC LDA ADC STA LDA ADC STA INX CPX BNE	SRAM + 1 #0 SRAM + 1 #0 SRAM + 1	C1BD 20 CD BD C1CO 60 : ; ; ; newgame routine ; ; ; newgame routine ; ; ; newgame routine ; ; ; ; newgame routine ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	NEWGAME	LDA STA STA STA STA LDA STA LDA STA	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SHAPE1 #87 SHAPE2
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C120 E8 C12E E0 19 C130 D0 CD C132 A9 05		STA LDA ADC STA CLC LDA ADC STA LDA ADC STA INX CPX BNE LDA	SRAM + 1 #0 SRAM + 1 #0 SRAM + 1 #0 CRAM #40 CRAM + 1 #0 CRAM + 1 #0 CRAM + 1 #25 LOOP3 #GREEN #16	C1BD 20 CD BD C1CO 60 : , , , , , , , , , , , , , , , , , ,	NEWGAME	JSR RTS LDA STA STA STA LDA STA LDA STA LDA STA	#0 SCORE1 + 1 SCORE1 + 1 SCORE2 + 1 #81 SHAPE1 #87 SHAPE2 NEWSCREN
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C12B 85 FC C12D E8 C12E E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C136 9D 00 D8	LOOP4	STA LDA ADC STA CLC LDA ADC STA LDA ADC STA INX CPX BNE LDA LDX STA	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16	C1BD 20 CD BD C1CO 60 :	NEWGAME	JSR RTS LDA STA STA STA LDA STA LDA STA LDA STA LDA STA LDA	#0 SCORE1 +1 SCORE2 +1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #GREEN
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C120 E8 C12E E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C136 9D 00 D8 C139 E8	LOOP4	STA LDA ADC STA CLC LDA ADC STA LDA ADC STA INX CPX BNE LDA LDA STA INX	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1 #0 CRAM+1 #0 GRAM+1	C1BD 20 CD BD C1C0 60 : , , , , , , , , , , , , , , , , , ,	NEWGAME	JSR RTS LDA STA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	#0 SCORE1 SCORE2 + 1 SCORE2 + 1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #GREEN #9
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C120 E0 C1	LOOP4	STA LDA ADC STA CLC LDA ADC STA LDA ADC STA INX CPX BNE LDA LDX STA INX CPX BNE LDA LDX STA	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1 #0 CRAM+1 #0 CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24	C1BD 20 CD BD C1CO 60 : ; ;newgame routine; ; ;newgame routine; ; ; (1C1 A9 00 C1C3 8D 3D 03 C1C6 8D 3F 03 C1C9 8D 3F 03 C1CC 8D 40 03 C1CF A9 51 C1D1 8D 4D 03 C1D4 A9 57 C1D6 8D 4C 03 C1D4 A9 57 C1D6 8D 4C 03 C1D2 A9 05 C1DC A2 09 C1EO 9D FO D8 C1E3 E8	NEWGAME	JSR RTS LDA STA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	#0 SCORE1 SCORE2 SCORE2 + 1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C129 E8 C12E E0 19 C130 D0 CD C132 A9 05 C132 A9 05 C138 E8 C138 E0 18 C130 D0 F8	LOOP4	STA LDA ADC STA CLC LDA ADC STA LDA ADC STA INX CPX BNE LDX STA INX STA INX CPX BNE LDX STA INX STA STA INX STA STA STA STA STA STA STA STA STA STA	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1 #0 CRAM+1 #0 SFAM+1 #25 LOOP3 #GREEN #16 55296,X	C1BD 20 CD BD C1CO 60 :	NEWGAME	LDA STA STA STA LDA STA LDA STA LDA STA LDA LDX STA LDA STA LDA STA LDA STA LDA STA STA LDA STA STA LDA STA STA LDA STA STA STA STA STA LDA STA STA STA STA STA STA STA STA STA ST	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C120 E8 C12E E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C139 E8 C134 E0 18 C135 A9 83	LOOP4	STA LDA ADC STA CLC LDA ADC STA ADC BNE ADC ADC BNE AD	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X	C1BD 20 CD BD C1CO 60 : , , , , , , , , , , , , , , , , , ,	NEWGAME	LDA STA STA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA STA STA STA STA STA STA STA STA ST	#0 SCORE1 + 1 SCORE1 + 1 SCORE2 + 1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C120 E8 C12E E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C136 E0 18 C137 E0 18 C138 E0 10 04	LOOP4	STA LDA ADC STA CLC LDA ADC STA ADC ST	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131	C1BD 20 CD BD C1CO 60 :	NEWGAME	LDA STA STA STA STA LDA STA LDA STA LDX STA LDX STA LDX STA LDX STA LDX STA LDX STA STA LDX STA STA STA STA STA STA STA STA STA STA	#0 SCORE1 + 1 SCORE1 + 1 SCORE2 + 1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C120 E8 C12E E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C136 9D 00 D8 C139 E8 C13A E0 18 C13C D0 F8 C13C D0 F8 C13C A9 83 C140 8D 10 04 C143 A9 95 C144 89 91 004	LOOP4	STA LDA STA CLC LDA STA ADC STA LDA STA INX CPX BNE LDA LDX STA LDA ST	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1 #0 CRAM+1 #10 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1040 #149	C1BD 20 CD BD C1C0 60newgame routineC1C1 A9 00C1C3 8D 3D 03C1C6 8D 3E 03C1C6 8D 3F 03C1C6 8D 4D 03C1C7 A9 51C1D1 8D 4D 03C1D2 A9 57C1D6 8D 4C 03C1D9 20 BE C0C1D6 A9 05C1D6 A2 09C1E3 E8C1E4 E0 1EC1E6 DD FD DBC1E3 E8C1E6 A2 09C1EB A2 09	NEWGAME LOOP5	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDX STA	#0 SCORE1 SCORE1+1 SCORE2 SCORE2+1 #81 SHAPE1 H87 SHAPE2 NEWSCREEN #GREEN #9 55536,X #30 LOOP5 #9 55616,X
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C123 69 28 C125 85 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C120 E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C136 9D 00 D8 C139 E8 C134 E0 18 C135 E0 18 C136 E0 18 C136 A9 83 C140 8D 10 04 C143 A9 95 C145 8D 11 04 C148 A9 19	LOOP4	STA LDA ADC STA CLC LDA STA LDA STA LDA STA LDX STA STA STA STA STA STA STA STA STA STA	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1040 #149 1041	C1BD 20 CD BD C1CO 60 : , , , , , , , , , , , , , , , , , ,	NEWGAME LOOP5	LDA STA STA STA LDA STA LDA STA LDA LDX STA LDA LDX STA LDA LDX STA LDA LDX STA LDA LDX STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	#0 \$CORE1 \$CORE1+1 \$CORE2+1 #81 \$CHAPE1 \$HAPE1 \$HAPE1 \$NEWSCREEN #9 \$5536,X #30 \$LOOP5 #9 \$55616,X
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C12D E8 C12E 0 19 C130 D0 CD C132 A9 05 C132 A9 05 C132 B9 00 D8 C139 E8 C13C D0 F8 C13C D0 F8 C13C D0 F8 C13C A9 83 C140 80 10 04 C143 80 95 C145 8D 11 04 C148 80 95 C145 8D 11 04 C148 80 95 C146 80 12 04	LOOP4	STA LDC STA CLCA STA CLDA STA CLDA STA CPX BNE LDX STA INXX BNDA STA STA LDX LDX STA LDX	SRAM SRAM+1 #0 SRAM+1 #0 SRAM+1 #0 CRAM #40 CRAM CRAM+1 #0 CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1040 1149 1041 #148 1042	C1BD 20 CD BD C1CO 60 :	NEWGAME LOOP5	LDA STA STA STA STA LDA STA LDA STA LDX STA LDX STA INX STA STA STA STA LDX STA STA STA STA STA STA STA STA STA STA	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5 #9 55616,X #30 LOOP6
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C120 E8 C125 A9 00 C130 D0 CD C132 A9 05 C134 A0 10 C136 9D 00 D8 C139 E8 C13A E0 18 C13B A9 83 C140 8D 10 04 C143 A9 95 C145 8D 11 04 C148 A9 94 C144 A9 94 C144 A9 AD	LOOP4	STA LDC STA CLC ADC STA CLC STA ADC STA LDC STA LDC STA LDC STA LDC STA LDX STA LDA STA LDA LDA STA LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	SRAM SRAM + 1 #0 SRAM + 1 #0 SRAM + 1 #0 SRAM + 1 #40 CRAM + 1 #0 CRAM + 1 #0 CRAM + 1 #25 LOOP3 #GREEN #16 55296, X #24 LOOP4 #131 1040 #149 1041 #148 1042 #173	C1BD 20 CD BD C1CO 60 :	NEWGAME LOOP5	JSR RTS LDA STA STA STA LDA STA LDA STA LDA STA LDA STA LDX STA LDX STA LDX STA STA STA STA STA STA STA STA STA STA	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5 #9 55616,X #30 LOOP6 55715
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C120 E8 C125 E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C138 E0 18 C13A E0 10 C13B E0 10 C14B E0 10 C14B E0 11 C14B E0 12 C14B E0 11 C14B E0 12 C14B E0 13 C14B E0 14 C14B E	LOOP4	STA LDC STA CLC ADC STA ADC STA LDC STA INX CPNE LDA STA LDTA LDTA LDTA LDTA STA LDTA STA LDTA STA LDTA STA LDTA STA LDTA LDTA LDTA LDTA LDTA LDTA LDTA LD	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1040 #149 1041 #148 1042 #173 1043	C1BD 20 CD BD C1CO 60 :	NEWGAME LOOP5	JSR RTS LDA STA STA STA LDA STA LDA STA LDA STA LDX STA STA LDX STA STA STA STA STA STA STA STA STA STA	#0 SCORE1 + 1 SCORE1 + 1 SCORE2 + 1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5 #9 55616,X #30 LOOP6 55715 #0
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C123 69 28 C125 85 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C120 E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C136 9D 00 D8 C138 E8 C13A E0 18 C13C D0 F8 C13E A9 83 C140 8D 10 04 C143 A9 95 C145 8D 11 04 C148 A9 94 C144 AB D 12 04 C144 AB D 12 04 C145 A9 87	LOOP4	STA LDC STA CLCA STA CLCA STA LDC STA LDC STA LDC STA LDC STA LDC STA LDX STA LDX STA LDX STA LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	SRAM SRAM+1 #0 SRAM+1 #0 SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1 1040 #149 1041 #148 1042 #173 1043 #143 8143	C1BD 20 CD BD C1CO 60 : ; ;newgame routine; ; ;newgame routine; ; ;newgame routine; ; ;11 A9 00 C1C3 8D 3D 03 C1C6 8D 3F 03 C1C9 8D 3F 03 C1C9 8D 40 03 C1CF A9 51 C1D1 8D 4D 03 C1D4 A9 57 C1D6 8D 4C 03 C1D2 A9 05 C1D2 A9	NEWGAME LOOP5 LOOP6	JSR RTS  LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDX LDX STA LDX LDX LDX LDX LDA	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SCORE2+1 #81 SHAPE1 H87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5 #9 55616,X #30 LOOP6 55715 #0 TABLE1,X
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C123 69 28 C125 85 FC C129 69 00 C128 80 FC C129 69 00 C130 D0 CD C130 D0 CD C130 D0 CD C132 A9 05 C134 A2 10 C136 9D 00 D8 C139 E8 C138 E0 18 C136 D0 F8 C138 E0 18 C136 D0 F8 C138 A9 83 C140 8D 10 04 C143 A9 95 C145 8D 11 04 C140 A9 AD C144 8D 12 04 C140 A9 AD C147 A9 BD C152 A9 8F C154 8D 13 04 C152 A9 8F C154 8D 14 04	LOOP4	STA LDC STA CLDA STA CLDA STA LDC STA	SRAM SRAM+1 #0 SRAM+1 #0 SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1040 #149 1041 #149 1041 #173 1042 #173 1043 #143 1044	C1BD 20 CD BD C1CO 60 : , , , , , , , , , , , , , , , , , ,	NEWGAME LOOP5 LOOP6	JSR RTS  LDA  STA  STA  LDA  BED  STA  LDA  BED  STA  LDA  BED	#0 SCORE1 SCORE2 SCORE2+1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5 #9 55616,X #30 LOOP6 55715 #0 TABLE1,X NEXT
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C120 E8 C127 A9 05 C130 D0 CD C132 A9 05 C134 BD 10 04 C135 A9 83 C140 8D 10 04 C141 BD 11 04 C143 A9 AD C144 BD 12 04 C140 A9 AD C147 BD 13 04 C147 A9 AD C147 A9 BD 14 04 C157 A9 86 C154 8D 14 04 C157 A9 86 C157 A9 86	LOOP4	STA LDC STA CLDA STA CLDA STA CLDA STA CPX ENDA STA CPX ENDA STA LDTA STA LDTA LDTA LDTA LDTA LDTA LDTA LDTA LD	SRAM SRAM+1 #0 SRAM+1 #0 SRAM+1 #0 SRAM+1 CRAM #40 CRAM CRAM+1 #0 CRAM+1 #0 CRAM+1 #0 CRAM+1 #135 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1040 #149 1041 #148 1042 #173 1042 #173 1042 #173 1043 #143 1044 #134 1044 #134	C1BD 20 CD BD C1CO 60 :	NEWGAME LOOP5 LOOP6	JSR RTS  LDA  STA  STA  LDA  STA  LDA  STA  LDA  STA  LDA  STA  LDA  STA  LDA  STA  LDX  STA  STA  LDX  STA  STA  STA  STA  STA  STA  STA  ST	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5 #9 55616,X #30 LOOP6 55715 #0 TABLE1,X NEXT1 1273,X
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C120 E8 C122 A9 05 C132 A9 05 C133 D0 CD C132 A9 05 C134 8D 10 C136 9D 00 D8 C139 E8 C13A E0 18 C13A E	LOOP4	STA LDC STA CLCA STA	SRAM SRAM + 1 #0 SRAM + 1 #0 SRAM + 1 #0 SRAM + 1 #0 CRAM #40 CRAM + 1 #0 CRAM + 1 #0 CRAM + 1 #25 LOOP3 #GREEN #16 55296, X #24 LOOP4 #131 1040 #148 1042 #173 1043 #143 1044 #134 1045 1046	C1BD 20 CD BD C1CO 60 :	NEWGAME LOOP5 LOOP6	JSR RTS LDA STA STA STA LDA STA LDA STA LDA STA LDX STA STA LDX STA STA STA STA STA STA STA STA STA STA	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5 #9 LOOP6 55715 #0 TABLE1,X NEXT1 1273,X
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C127 A5 FC C129 69 00 C128 85 FC C120 E8 C127 A5 FC C120 E8 C127 A5 FC C120 E8 C127 A5 FC C120 E8 C128 E0 19 C130 D0 CD C132 A9 05 C134 A2 10 C132 A9 05 C134 A2 10 C138 B8 C13A E0 18 C13A E0 10 C13B E0 10 C13B E0 10 C13B E0 11 C13B E0	LOOP4	STA LDC STA CLC ASTA STA CLC ASTA STA CDC STA	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM #40 CRAM+1 #0 CRAM+1 #0 CRAM+1 #10 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1040 #149 1041 #148 1042 #173 1043 #143 1044 #173 1044 #134 1045 11045 #1046	C1BD 20 CD BD C1CO 60 : , , , , , , , , , , , , , , , , , ,	NEWGAME  LOOP5  LOOP6  LOOP7	JSR RTS LDA STA STA STA LDA STA LDA STA LDX STA STA LDX STA STA STA STA STA STA STA STA STA STA	#0 SCORE1 + 1 SCORE1 + 1 SCORE2 + 1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #GREEN #9 55536,X #30 LOOP5 #9 TABLE1,X NEXT1 1273,X LOOP7 #0
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C123 69 28 C125 85 FC C129 69 00 C128 80 FC C128 80 FC C134 80 10 04 C143 89 95 C145 80 11 04 C140 89 80 C140 89 80 C140 80 12 04 C140 89 81 C140 80 12 04 C140 89 86 C152 89 87 C154 80 13 04 C157 89 86 C159 8D 15 04 C157 89 81 C156 8D 15 04 C157 89 81	LOOP4	STA LDC STA CLDA CTD STA CLDA CTD STA CLDA CTD STA CPX	SRAM SRAM+1 #0 SRAM+1 CRAM #40 CRAM+1 #0 CRAM+1 #0 CRAM+1 #25 LOOP3 #GREEN #16 55296,X #24 LOOP4 #131 1040 #149 1041 1042 #173 1042 #173 1043 #148 1042 #173 1044 #148 1045 1046 #161 1047	C1BD 20 CD BD C1CO 60 C1CO 60 C1CO 80 JE C1CO 80 JE C1CO 8D JE C1CO 9D C1EO 8D JE C1	NEWGAME  LOOP5  LOOP6  LOOP7	JSR RTS  LDA  STA  STA  LDA  STA  STA  LDA  STA  LDA  STA  STA  LDA  BEQ  LDA  BEQ  LDA  BEQ  LDA  BEQ  LDA  LDA  BEQ  LDA	#0 SCORE1 SCORE2+1 SCORE2+1 #81 SCORE2+1 #87 SHAPE1 #87 SHAPE2 NEWSCREN #9 55536,X #30 LOOP5 #9 55616,X #30 LOOP6 55715 #0 TABLE1,X NEXT1 1273,X LOOP7 #0 TABLE2.X
C118 85 FD C11A A5 FE C11C 69 00 C11E 85 FE C120 18 C121 A5 FB C123 69 28 C125 85 FB C123 69 28 C125 85 FC C129 69 00 C128 85 FC C129 69 00 C128 85 FC C129 69 00 C128 A9 05 C128 A9 05 C132 A9 05 C134 A9 10 C136 A9 10 C136 A9 11 C14A A9 04 C14A BD 12 04 C14B A9 94 C14A BD 12 04 C14B A9 AD C14F BD 13 04 C15C A9 8F C15C A9 8F C15C A9 8F C15C A9 8D 15 04 C15C A9 16 04 C15C A9 17 C15C	LOOP4	STA LDC STA CLDA STA	#25 (CRAM) + 1 #0 (SRAM), Y #8LACK (CRAM), Y #39 #160 (SRAM), Y #BLACK (CRAM), Y #BLACK (CRAM), Y #BLACK (CRAM), Y #8LACK (CRAM), Y #8LOOP3 #6REEN #16 #16 #1655296, X #24 #100P4 #131 #1040 #149 #1041 #148 #1042 #173 #1043 #1044 #134 #1043 #1044 #134 #1045 #1046 #161 #1047 #8LUE #55751	C1BD 20 CD BD C1CO 60 C1CO 60 C1C3 8D 3D 03 C1C6 8D 40 03 C1CF A9 51 C1D A9 57 C1D6 8D 4C 03 C1DC A9 50 C1DC A9 5	LOOP5 LOOP7 NEXT1 LOOP8	JSR RTS  LDA  STA  STA  STA  LDA  STA  STA  LDA  BEQ  STA  STA  BEQ  STA  BEQ  STA  BEQ  STA  BEQ  STA  STA  BEQ  STA  STA  STA  BEQ  STA  STA  STA  STA  STA  STA  STA  ST	#0 SCORE1 SCORE1+1 SCORE2+1 #81 SHAPE1 #87 SHAPE2 NEWSCREEN #9 55536,X #30 LOOP5 #9 55616,X #30 LOOP6 55715 #0 TABLE1,X NEXT1 1273,X LOOP7 #0 TABLE2,X NEXT2

C20C E8		INX	LOOP8 #48 LEVEL 1443 #100 DELAY JOY1 #15 LEVUP #13 LEVDOWN JOY1 #16 SETLEV LOOP9 LEVEL #1 #47 LOW LEVEL #1 #58 HIGH LEVEL 1443 LOOP9 #57 LEVEL 1443 LOOP9 #58 LEVEL 1443 LOOP9 #59 LEVEL 1444 LEVEL 1443 LOOP9 #57 LEVEL 1443 LOOP9 #57 LEVEL 1443 LOOP9 #57 LEVEL 1443 LOOP9 #58 LEVEL 1444 LEVEL 1448 LEVEL #50 LEVEL #6 SETLEV #75 LEVEL LEVEL LEVEL #75 LEVEL LEVEL #75 LEVEL LEVEL #75 LEVEL LEVEL #75 LEVEL #75 LEVEL LEVEL #75 LEVEL #75 LEVEL #75 LEVEL #75 LEVEL LEVEL #75 LEVEL #75 LEVEL LEVEL #75 LEVEL #75 LEVEL	C2C4 13 0B 09		.BYT	19,11,9,12,12,32,12, 5,22,5,12,0
C20D D0 F5		BNE	LOOP8				5,22,5,12,0
C20F A9 30	NEXT2	LDA	#48	1			
C211 8D 3C 03		SIA	1443	score routine			
C214 6D A3 03	10029	LDX	#100	C2D0 AD 46 03	SCORE	LDA	POS
C219 20 8A C3	200.0	JSR	DELAY	C2D3 CD 48 03		CMP	P0S+2
C21C AD 01 DC		LDA	JOY1	C2D6 F0 03		BEQ	CHEKHI
C21F 29 0F		AND	#15	C2D8 4C 5C C3	CHEKHI	JMP	NUHEADUN POC + 1
C221 C9 UE C223 E0 21		REO	# 14 I EVLIP	C2DE AD 47 03	CHENNI	CMP	P0S+3
C225 C9 0D		CMP	#13	C2E1 D0 79		BNE	NOHEADON
C227 F0 0A		BEQ	LEVDOWN	C2E3 AD 4B 03		LDA	LATCH1
C229 AD 01 DC		LDA	J0Y1	C2E6 AE 4A 03		LDX	LATCH2
C22C 29 10		REO	# ID CETLEV	CZES CS OE		REO	#14 NCOLL
C230 4C 17 C2		JMP	LOOP9	C2ED C9 07		CMP	#7
C233 AD 3C 03	<b>LEVDOWN</b>	LDA	LEVEL	C2EF FO OF		BEQ	ECOLL
C236 38		SEC		C2F1 C9 0D		CMP	#13
C237 E9 01		SBC	#1 #47	C2F3 FU 12		CMD	500LL #11
C239 C9 ZF		REO	I OW	C2F7 FO 15		BEQ	WCOLL
C23D 8D 3C 03		STA	LEVEL	C2F9 E0 0D	NCOLL	CPX	#13
C240 8D A3 05		STA	1443	C2FB F0 18		BEQ	HEADON
C243 4C 17 C2	10,410	JMP	LOOP9	C2FD 4C 5C C3	ECOLI	JMP	NOHEADON #11
C246 AD 3C U3	LEVUP	CLC	LEVEL	C300 EU UD	ECOLL	BEO.	HEADON
C24A 69 01		ADC	#1	C304 4C 5C C3		JMP	NOHEADON
C24C C9 3A		CMP	#58	C307 E0 0E	SC0LL	CPX	#14
C24E F0 14		BEQ	HIGH	C309 F0 0A		BEQ	HEADON
C250 8D 3C 03		SIA	LEVEL 1442	C308 4C 5C C3	WCOLL	JMP	NUHEADUN #7
C256 4C 17 C2		JMP	10029	C310 FO 03	WOOLL	BFO	HFADON
C259 A9 39	LOW	LDA	#57	C312 4C 5C C3		JMP	NOHEADON
C25B 8D 3C 03		STA	LEVEL	C315 AD 3D 03	HEADON	LDA	SCORE1
C25E 8D A3 05		STA	1443	C318 18		CLC	CTEDC
C261 4C 17 C2	HIGH	IDA	#4R	C31C 8D 3D 03		STA	SCORF1
C266 8D 3C 03	man	STA	LEVEL	C31F AD 3E 03		LDA	SCORE1+1
C269 8D A3 05		STA	1443	C322 69 00		ADC	#0
C26C 4C 17 C2	CETI EV	JMP	L00P9	C324 8D 3E 03		SIA	SCURET + 1
C20F AD 01 DC	SEILEV	AND	#16	C32A 18		CLC	JILF J T I
C274 F0 F9		BEQ	SETLEV	C32B 6D 3E 03		ADC	SCORE1+1
C276 A2 FA		LDX	#250	C32E 8D 3E 03		STA	SCORE1+1
C278 20 8A C3		JSR	DELAY LEVEL	C331 AE 44 U3		LDX	LIVEST
C27E AD 3C 03		SEC	LLVLL	C335 8F 44 03		STX	LIVES1
C27F E9 30		SBC	#48	C338 AD 3F 03		LDA	SCORE2
C281 AA		TAX		C33B 18		CLC	07500
C282 A9 32		LDA	#50 1 EV/EI	C33C 6D 42 03		AUC AT2	STEPS SCORE2
C287 FD 00	I EVI OOP	CPX	#O	C342 AD 40 03		LDA	SCORE2+1
C289 F0 0D	221200.	BEQ	START	C345 69 00		ADC	#0
C28B AD 3C 03		LDA	LEVEL	C347 8D 40 03		STA	SCORE2+1
C28E 38		SEC	45	C34A AD 43 U3		CLC	SIEPS+1
C291 8D 3C 03		STA	#5 I FVEL	C34E 6D 40 03		ADC	SCORE2+1
C294 CA		DEX		C351 8D 40 03		STA	SCORE2+1
C295 4C 87 C2		JMP	LEVLOOP	C354 AE 45 03		LDX	LIVES2
C298 20 BE C0	START	JSR	NEWSCREEN	C357 CA		DEX	LIVECO
C29B A9 0A C29D 8D 44 03		LDA STA	#10 Lives1	C358 8E 45 03 C35B 60		STX RTS	LIVES2
C2AO 8D 45 03		STA	LIVES2	C35C AD 41 03	NOHEADON	LDA	PLAYER
C2A4 0D 0F 16	TABLE1	.BYT	13,15,22,5,32,10,15,	C360 AA		TAX LDA	SCORE1,X
C2AE 09 03 0B		.BYT	25,19,20 9,3,11,32,21,16,47,4	C361 BD 3D 03 C364 18		CLC	OUDIL I,A
551E 05 00 0D		.511	,15,23,14,0	C365 6D 42 03		ADC	STEPS
C2BA 14 0F 20	TABLE2	.BYT	20,15,32,3,8,15,15,1	C368 9D 3D 03		STA	SCORE1,X
			9,5,32	C36B BD 3E 03		LDA	SCORE1 + 1,X

#### The Source Code

C36E 69 00		ADC	#0 SCORE1+1,X STEPS+1 SCORE1+1,X SCORE1+1,X PLAYER LIVES1,X #1 LIVES1,X #0 LOOP10 DELAY  #0 LOOP10 DELAY  PLAYER SHAPE2,X  NEXTPOS,X POS,X NEXTPOS,X NEXTPOS+1,X POS+1,X (NEXTPOS+1,X #212 NEXTPOS+1,X #212 NEXTPOS+1,X #212 NEXTPOS,X) BEEP  #RED (NEXTPOS,X) BEEP  PLAYER JOY2,X #15 #14 NORTH #7 EAST #13 SOUTH #11 #15 H14 #17 EAST LATCH2,X READIT LATCH2,X POS,X POS,X	C3EC E9 28		SBC	#40
C370 9D 3E 03 C373 AD 43 03		STA	SCORE1+1,X STEPS+1	C3EE 95 F7 C3F0 BD 47 03		STA	NEXTPOS,X POS + 1,X
C376 18		CLC	COOPE4 1 4 V	C3F3 E9 00		SBC	#0
C37A 9D 3E 03		STA	SCORE1 + 1,X	C3F7 4C 42 C4		JMP	NEXTPOS + 1,X JOYEXIT
C37D AE 41 03		LDX	PLAYER	C3FA 9D 4A 03	EAST	STA	LATCH2,X
C383 38		SEC	LIVEST,A	C3FE OA		ASL	
C384 E9 01 C386 9D 44 03		SBC	#1 LIVES1 Y	C3FF AA C400 18		TAX	
C389 60		RTS	214201,7	C401 BD 46 03		LDA	POS,X
; : delay routine				C404 69 01 C406 95 F7		ADC STA	#1 Nextpos,x
0204 40 00	DEL AV	LDV	<b>"0</b>	C408 BD 47 03		LDA	P0S+1,X
C38C C8	LOOP10	INY	#0	C40B 69 00 C40D 95 F8		STA	#U NEXTPOS + 1,X
C38D D0 FD		BNE	L00P10	C40F 4C 42 C4	COLUTI	JMP	JOYEXIT
C390 D0 F8		BNE	DELAY	C412 9D 4A 03	200111	TXA	LAICHZ,X
C392 60		RTS		C416 0A		ASL	
;move routine				C418 18		CLC	
; C393 AF 41 03	MOVE	I DX	PI AYFR	C419 BD 46 03 C41C 69 28		LDA ADC	POS,X #40
C396 BC 4C 03	11.072	LDY	SHAPE2,X	C41E 95 F7		STA	NEXTPOS,X
C399 8A C39A 0A		ASL		C420 BD 47 03 C423 69 00		LDA ADC	POS+1,X #0
C39B AA		TAX	NEVIDOC V	C425 95 F8		STA	NEXTPOS + 1,X
C39E 9D 46 03		STA	POS,X	C427 4C 42 C4 C42A 9D 4A 03	WEST	STA	LATCH2,X
C3A1 B5 F8 C3A3 9D 47 03		LDA STA	NEXTPOS + 1,X	C42D 8A		TXA	
C3A6 98		TYA	10011,7	C42F AA		TAX	
C3A7 81 F7 C3A9 B5 F8		SIA LDA	(NEXTPOS,X) NEXTPOS + 1.X	C430 38 C431 BD 46 03		SEC	POS X
C3AB 18		CLC	#040	C434 E9 01		SBC	#1
C3AE 95 F8		STA	#212 NEXTPOS+1,X	C436 95 F7 C438 BD 47 03		LDA	NEXTPOS,X POS + 1,X
C3B0 E0 02 C3B2 D0 08		CPX	#2 MOVERED	C43B E9 00		SBC	#0 NEXTPOS + 1,X
C3B4 A9 06		LDA	#BLUE	C43F 4C 42 C4		JMP	JOYEXIT
C3B6 81 F7 C3B8 20 99 C5		SIA JSR	(NEXTPOS,X) BEEP	C442 60	JOYEXIT	RTS	
C3BB 60	MOVEDED	RTS	#PED	setup routine			
C3BE 81 F7	MOVERED	STA	(NEXTPOS,X)	; C443 A2 00	SETUP	LDX	#0
C3C0 20 99 C5 C3C3 60		JSR RTS	BEEP	C445 BD D4 C4	L00P20	LDA	TABLE3,X
;		1113		C44A 9D FF 04		STA	1279,X
; readjoy routine				C44D E8 C44F D0 F5		INX BNF	L00P20
C3C4 AE 41 03	READJOY	LDX	PLAYER	C450 A2 00	NEXT21	LDX	#0
C3CA 29 OF		AND	#15	C452 BD E1 C4	L00P21	BEQ	NEXT22
C3CC C9 0E C3CE F0 12	READIT	CMP	#14 NORTH	C457 9D 4F 05		STA	1359,X
C3D0 C9 07		CMP	#7	C45B D0 F5		BNE	L00P21
C3D2 F0 26 C3D4 C9 0D		BEQ CMP	EAST #13	C45D A2 00 C45E BD ED C4	NEXT22	LDX	#0 TARLES Y
C3D6 F0 3A		BEQ	SOUTH	C462 F0 06	LOOFEL	BEQ	NEXT23
C3DA FO 4E		BEQ	WEST	C464 9D 11 06 C467 E8		SIA	1553,X
C3DC BD 4A 03		LDA	LATCH2,X	C468 D0 F5	NEVTOO	BNE	L00P22
C3E2 9D 4A 03	NORTH	STA	LATCH2,X	C46C BD ED C4	L00P23	LDA	TABLE5,X
C3E5 8A C3E6 0A		IXA ASL		C46F FO 06 C471 9D 21 08		BEQ STA	NEXT24 1569.X
C3E7 AA		TAX		C474 E8		INX	100000
C3E9 BD 46 03		LDA	POS,X	C475 DU F5	NEXT24	LDA	#GREEN

C479 A Z D9								
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C479 A2 09		LDX	#9	C523 E0 25		CPX	#37
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C47B 9D F0 D8	L00P24	STA	55536,X	C525 D0 F8		BNE	L00P33
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C47E E8		INX		C527 AD 01 DC	L00P34	LDA	J0Y1
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C4/F E0 1E		CPX	#30	C52A 2D 00 DC		AND	JUY2 #16
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C483 A2 N9		LUX	#9	C52F D0 F6		RNF	100P34
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C485 9D 40 D9	LOOP25	STA	55616.X	C531 AD 01 DC	L00P35	LDA	J0Y1
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C488 E8	200. 20	INX		C534 2D 00 DC		AND	JOY2
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C489 E0 1E		CPX	#30	C537 29 10		AND	#16
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C48B D0 F8		BNE	L00P25	C539 F0 F6		BEQ	LOOP35
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C48D A2 U1	LOODSE	CTA	# I 55016 V	C53E AC 06 C0		JOH	MAINI OOD
C495 D0 F8 CLC CLC CLC CLC 1,20,21,51,43,22,0 C497 18 CLC CLC CLC CLC 1,20,20,151,43,22,0 C498 A2 DD LDX #13 C559 0F 20 10 BYT 15,32,16,12,1,25,32, C49A A0 0F LDY #15	C407 5D 00 DA	LUUFZU	INX	JJ610,A	C541 07 01 0D	TABLE6	BYT	7.1.13.5.32.15.22.5.
C49C 20 F0 FF	C493 E0 25	•	CPX	#37				18,0
C49C 20 F0 FF	C495 D0 F8		BNE	L00P26	C54B 10 12 05	TABLE7	.BYT	16,18,5,19,19,32,2,2
C49C 20 F0 FF	C497 18		CLC					
C-98C 20 F0 FF	C498 A2 0D		LDX	#13	C559 0F 20 10		.BY I	15,32,16,12,1,25,32,
CHSP AE 45 03	C49A AU UF		ICR	#10 PLOT				1,7,1,5,14,0
CAMA 20 CD BD	C49F AF 45 03		LDX	LIVES2	: crash routine			
CAMA 18	C4A2 A9 00		LDA	#0	;			
C4A7 18 CLC C4A8 A2 0D LDX #13 C568 A9 81 LDA #129 C4AA A0 1F LDY #31 C568 A9 91 LDA #129 C4AC 2D F0 FF JSR PLOT C570 A9 99 C4AF AE 44 03 LDX LIVES1 C572 8D 05 D4 STA ATTACK C4B2 A9 00 LDA #00 C575 A9 64 LDA #100 C4B2 A9 00 LDA #00 C575 A9 64 LDA #100 C4B7 AD 01 DC WAIT LDA JOY1 C57A A9 0C LDA #112 C4B7 AD 01 DC WAIT LDA JOY1 C57A A9 0C LDA #12 C4B2 A9 00 DC AND JOY2 C57C 8D 01 D4 STA V1LD C4B2 DD DC AND JOY2 C57C 8D 01 D4 STA V1LD C4B2 DD T6 BNE WAIT C581 8D 2D DBOOM STA BORDER C4C1 AD 01 DC WAIT1 LDA JOY1 C58A A2 2B LDX #40 C4C2 DD T6 BNE WAIT C581 8D 2D DBOOM STA BORDER C4C1 AD 01 DC WAIT1 LDA JOY1 C58A A2 2B LDX #40 C4C2 DD DD AND JOY2 C58B 2D BA C3 JSR BORDER C4C1 AD 01 DC WAIT1 LDA JOY1 C58A A2 2B LDX #40 C4C2 DD DB CD AND JOY2 C58B 2D BA C3 JSR BORDER C4C1 AD 01 DC WAIT1 LDA JOY1 C58A A2 2B BC BC WAIT1 C581 8D DD BOOM STA BORDER C4C1 AD 01 DC WAIT1 LDA JOY1 C58A A2 2B BC BC BC WAIT1 C58B A9 01 SEC C4C4 2D DD BC CD STA BLES JSR DELAY C58B ED D1 SEC C4C2 DB CD STA BLES JSR DELAY C58B ED D1 SEC C4C3 DB CD STA BLES JSR DELAY C58B ED D1 SEC C4C4 DB CD 91 TABLES JSR NEWSCREEN C59D A9 0B BEEP LDA #8 C4C4 DB CD 91 TABLES JSR NEWSCREEN C59D A9 0B BEEP LDA #8 C4C4 DB CD 91 TABLES JSR NEWSCREEN C59D A9 0B BEEP LDA #8 C4C4 DB CD 91 TABLES JSR NEWSCREEN C59D A9 0B BEEP LDA #16 C4C4 DB CD 91 TABLES JSR NEWSCREEN C59D A9 0B BEEP LDA #16 C4C4 DB CD 91 TABLES JSR NEWSCREEN C59D A9 0B BEEP LDA #16 C4C4 DB CD 91 TABLES JSR NEWSCREEN C59D A9 0B BEEP LDA #16 C4C4 DB CD 91 TABLES JSR NEWSCREEN C59D A9 0B BEEP LDA #16 C4C4 DB CD FS STA 1280,X C58A A2 0D LDA #16 C4C5 DC 05 FS STA 1280,X C58A A2 0D LDA #16 C4C5 DC 05 FS STA 1280,X C58A B9 D1 LDA #16 C4C5 DC 05 FS STA 1280,X C58A B9 D1 LDA #170 C4C5 DC 05 FS STA 1280,X C58A B9 D1 LDA #170 C4C5 DC 05 FS STA 1280,X C58A B9 D1 LDA #170 C4C5 DC 05 FS STA 1280,X C58A B9 D1 LDA #170 C4C5 DC 05 FS STA 151,X C58B BD D1 D4 STA ATTACK C50F DD F5 STA 151,X C58B BD D1 D4 STA ATTACK C50F DD F5 STA 151,X C58B BD D1 D4 STA ATTACK C50F DD F5 STA 151,X C58B BD D1 D4 STA ATTACK C50F DD F5 STA 151,	C4A4 20 CD BD		JSR	PRNUM	C566 A9 0F	CRASH	LDA	
C49A AO 1F	C4A7 18		CLC	<b>#40</b>	C568 8D 18 D4		SIA	
C4AC 20 F0 FF	C4A8 A2 UD		LDX	#13 #21	C56D 8D 04 D4		CTA	
CAMF AE 44 03	C4AA AU 1F		JSR	PLOT	C570 A9 09		LDA	#9
C482 A9 00	C4AF AE 44 03		LDX	LIVES1	C572 8D 05 D4		STA	
C48P AD 01 DC   WAIT   LDA   JOY1   C57A A9 DC   LDA   #12	C4B2 A9 00		LDA	#0	C575 A9 64		LDA	
C48A 2D 0D DC WAIT LDA JOY1 C576 A9 0C LDA #12 C48A 2D 0D DC AND JOY2 C576 8D 01 D4 STA V1HI C4BD 29 10 AND #16 C57F A9 0F LDA #15 STA V1HI C4C4 2D 00 DC AND JOY2 C576 8D 01 D4 STA V1HI C4C4 2D 00 DC AND JOY2 C586 2D 8A C3 JSR BORDER C4C7 29 10 AND #16 C589 38 SEC C4C47 29 10 AND #16 C589 38 SEC C4C47 29 10 AND #16 C588 2D 01 SBC #1 C4C9 A2 OD LDX #0 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C 2D 00 CMP #0 C4C9 A2 OD AND #16 C58C A2 OD A2	C4B4 20 CD BD		JSR	PRNUM	C577 8D 00 D4		STA	
C48B 2D 10	C4B7 AD 01 DC	WAIT	LDA	J0Y1	C57A A9 0C		LDA	
CABP DO F6	C4BA 2D 00 DC		AND	JU12 #16	C57E AQ 0F		I DA	
C4C1 AD 01 DC WAIT1	C4BD 29 10 C4BF D0 F6		RNF	WAIT	C581 8D 20 D0	BOOM	STA	
C4C2 29 10 DC	C4C1 AD 01 DC	WAIT1	LDA	J0Y1	C584 A2 28		LDX	
C4C7 29 10	C4C4 2D 00 DC		AND	JOY2	C586 20 8A C3		JSR	DELAY
C4CB 20 0	C4C7 29 10		AND	#16	C589 38		SEC	71.4
C4CD 20 8A C3	C4C9 FU F6		REG	WAII1	C58A E9 U1		CMD	
CADO 20 BE CO	C4CD A2 00		JSR	DELAY	C58F D0 F1		RNF	
C4D3 60	C4D0 20 BE C0		JSR	NEWSCREEN	C590 A9 00		LDA	
C4D4 10 12 05 TABLE3  BYT 1,0,20,15,14,0 C598 60 RTS  C4E1 14 0F 20 TABLE4 BYT 20,15,32,3,15,14,20, : 9,14,21,5,0 ; beep routine  C4ED 0C 09 16 TABLE5 BYT 12,9,22,5,19,61,0 : beep routine  : endgame routine C598 A9 08 BEEP LDA #8 : endgame routine C598 A9 10 LDA #16  C4F4 20 BE C0 ENDGAME LDX #0 C538 A9 08 LDA #16  C4F7 A2 00 LDX #0 C538 A9 80 LDA #128  C4F9 BD 41 C5 L00P30 LDA TABLE6,X C5A5 BD 05 D4 STA ATTACK  C4F7 BD 00 05 STA 1280,X C5A5 BD 06 D4 STA RELEASE  C4FC F0 06 BEQ NEXT31 C5A8 A9 0A LDA #10  C4FE 9D 00 05 STA 1280,X C5A6 A2 00 LDX #0  C501 EB INX C5AC 18 BEEPSET CLC  C502 D0 F5 BNE L00P30 C5A0 6D 41 03 ADC PLAYER  C509 F0 06 BEQ NEXT31 LDX #0 C5B8 BD 0F7 BNE BEEPSET  C509 F0 06 BEQ NEXT32 C5B3 D0 F7 BNE BEEPSET  C509 F0 06 BEQ NEXT32 C5B3 D0 F7 BNE BEEPSET  C509 F0 06 BEQ NEXT32 C5B3 D0 F7 BNE BEEPSET  C509 F0 06 BEQ NEXT32 C5B3 D0 F7 BNE BEEPSET  C509 F0 D6 STA 1351,X C5B8 B0 01 D4 STA V1HI  C50E BB INX C5BB A9 25 LDA #37  C50F D0 F5 BNE L00P31 C5BA BD 00 D4 STA V1HI  C50E BB INX C5BB A9 21 LDA #37  C50F D0 F5 BNE L00P31 C5BA BD 00 D4 STA WAVEFORM  C511 A9 05 NEXT32 LDA #GREEN C5BD A9 21 LDA #37  C50F D0 F5 BNE L00P31 C5BA BD 00 D4 STA WAVEFORM  C513 A2 01 LDX #1 C5BB BD 04 D4 STA WAVEFORM  C514 BD FB BNE L00P32 STA 55536,X C5C2 AB 04 D4 STA WAVEFORM  C518 B0 FB BNE L00P32 STA 55536,X C5C2 AB 04 D4 STA WAVEFORM  C519 B0 FB BNE L00P33 STA 55616,X C5CD 8D 05 D4 STA ATTACK  C507 BD 6D BT STA ATTACK  C508 BD 6D BNE L00P32 STA S5616,X C5CD 8D 05 D4 STA ATTACK  C510 A2 01 LDX #1 C5CD 8D 05 D4 STA ATTACK  C511 B0 FB BNE L00P32 STA 55616,X C5CD 8D 05 D4 STA ATTACK  C512 B0 6D 6D 4 STA ATTACK  C513 B0 6D 6D 4 STA ATTACK  C514 B0 6D 6D 4 STA ATTACK  C515 BD 6D 6D 6D 6D 8TS	C4D3 60		RTS		C592 8D 04 D4		STA	
C4E1 14 0F 20 TABLE4 .BYT	C4D4 10 12 05	TABLE3	.BYT	16,18,5,19,19,32,2,2	C595 8D 05 D4		STA	ATTACK
CAED OC 09 16 TABLE5	0454 44 05 00	TADLEA	DVT	1,20,20,15,14,0	C598 60		RIS	
C4ED 0C 09 16 TABLE5	C4ET 14 UF 20	IABLE4	.011	20,13,32,3,13,14,20, 0.14.21.5.0	, heen routine			
C599 A9 08 BEEP	C4ED 0C 09 16	TABLE5	.BYT	12.9.22.5.19.61.0	; boop roddino			
endgame routine	;			, , , , , , ,	C599 A9 08	BEEP	LDA	
C4F4 20 BE C0 ENDGAME JSR NEWSCREEN C5A0 8D 05 D4 STA ATTACK C4F7 A2 00 LDA #0 C5A3 A9 80 LDA #128 C4F9 BD 41 C5 L00P30 LDA TABLE6,X C5A5 8D 06 D4 STA RELEASE C4FC F0 06 BEQ NEXT31 C5A8 A9 0A LDA #10 C4FE 9D 00 05 STA 1280,X C5A4 A2 00 LDX #0 C501 E8 INX C5A0 AD 41 03 C502 D0 F5 BNE L00P30 C5A0 6D 41 03 C504 A2 00 NEXT31 LDX #0 C580 E8 INX C506 BD 4B C5 L00P31 LDA TABLE7,X C5B1 E0 0A CPX #10 C509 F0 06 BEQ NEXT32 C5B3 D0 F7 BNE BEEPSET C509 F0 06 STA 1351,X C5B8 D0 1D D4 STA V1HI C50E E8 INX C5B8 A9 25 LDA #37 C50F D0 F5 BNE L00P31 C5B BNE L00P31 C5BA BD 01 D4 STA V1H0 C50F D0 F5 BNE L00P31 C5BA BD 00 D4 STA V1L0 C511 A9 05 NEXT32 LDA #GREEN C5BD A9 21 LDA #33 C513 A2 01 LDX #30 C5C2 AE 3C 03 LDX LEVEL C518 E8 INX C5C2 AE 3C 03 LDX LEVEL C518 E8 INX C5C3 AB 00 LDA STA WAVEFORM C519 E0 TE CPX #30 C5C3 AB 00 LDA #37 C519 E0 TE CPX #30 C5C3 AB 00 LDA STA WAVEFORM C519 E0 TE CPX #30 C5C3 AB 00 LDA STA WAVEFORM C519 D0 F8 BNE L00P32 C5C3 AB 00 LDA STA WAVEFORM C519 D0 F8 BNE L00P32 C5C3 AB 00 LDA STA WAVEFORM C519 D0 F8 BNE L00P32 C5C3 AB 00 LDA STA WAVEFORM C519 D0 F8 BNE L00P32 C5C3 AB 00 LDA STA WAVEFORM C519 D0 F8 BNE L00P33 STA 55616,X C5C0 BD 05 D4 STA ATTACK C519 D0 40 D9 L00P33 STA 55616,X C5C0 BD 05 D4 STA ATTACK C519 D0 40 D9 L00P33 STA 55616,X C5C0 BD 05 D4 STA ATTACK C519 D0 D0 STA BLEASE	; endgame routine				C59B 8D 18 D4		STA	VOLUME
C4F7 A2 00	; 0454 00 DE 00	ENDOAME	ICD	NEWCODEEN	C59E A9 10		LUA	# ID
C4F9 BD 41 C5 L00P30	C4F4 20 BE C0	ENDGAIVIE	IDX	#O	C5A3 A9 80		IDA	
C4FC F0 06 BEQ NEXT31 C5A8 A9 0A LDA #10 C4FE 90 00 05 STA 1280,X C5AA A2 00 LDX #0 C501 E8 INX C5AC 18 BEEPSET CLC C502 D0 F5 BNE LOOP30 C5AD 6D 41 03 ADC PLAYER C504 A2 00 NEXT31 LDX #0 C5B0 E8 INX C506 BD 48 C5 LOOP31 LDA TABLET,X C5B1 E0 0A CPX #10 C509 F0 06 BEQ NEXT32 C5B3 D0 F7 BNE BEEPSET C508 BD 47 05 STA 1351,X C5B5 BD 01 D4 STA V1HI C50E E8 INX C5B8 A9 25 LDA #37 C50F D0 F5 BNE LOOP31 C5A BD 4 STA V1LO C511 A9 05 NEXT32 LDA #GREEN C5BD A9 21 LDA #33 C513 A2 01 LDX #1 C5B A9 21 LDA #33 C513 A2 01 LDX #1 C5B A9 C1 LDA #33 C513 A2 01 LDX #1 C5B A9 C1 LDA #37 C51B E8 INX C5C5 D0 F1 LDX #1 C51B BB LOOP32 STA 55536,X C5C2 AE 3C 03 LDX LEVEL C51B E8 INX C5C5 D0 F1 BNE LOOP31 C5C5 D0 D1 D4 STA WAVEFORM C515 D0 F1 D8 LOOP32 STA 55536,X C5C2 AE 3C 03 LDX LEVEL C518 E8 INX C5C5 D0 BD C5C5 D4 STA WAVEFORM C519 D0 F1 CPX #30 C5C5 AB 00 LDA #0 C519 D0 F8 BNE LOOP32 STA 55616,X C5CD 8D 05 D4 STA WAVEFORM C519 D0 F8 BNE LOOP32 STA 55616,X C5CD 8D 05 D4 STA WAVEFORM C519 D0 F9 BNE LOOP33 STA 55616,X C5CD 8D 05 D4 STA ATTACK C519 D0 F1 STA RELEASE	C4F9 BD 41 C5	LOOP30	LDA	TABLE6.X	C5A5 8D 06 D4		STA	
C4FE 9D 00 05 STA 1280,X C5AA A2 00 LDX #0 C502 D0 F5 BNE L00P30 C5AC 18 BEEPSET CLC C502 D0 F5 BNE L00P30 C5AC 6D 41 03 ADC C504 A2 00 NEXT31 LDX #0 C5B0 E8 INX C506 BD 4B C5 L00P31 LDA TABLET,X C5B1 E0 0A CFX #10 C509 F0 06 BEQ NEXT32 C5B3 D0 F7 BNE BEEPSET C508 B0 47 05 STA 1351,X C5B5 BD 01 D4 STA V1HI C50E E8 INX C50E E8 INX C50E B INX C50F D0 F5 BNE L00P31 C5BA 8D 00 D4 STA V1HO C511 A9 05 NEXT32 LDA #GREEN C5BD A9 21 LDA #33 C513 A2 01 LDX #1 C5B AB 00 D4 STA WWJEFORM C515 9D F0 D8 L00P32 STA 55536,X C5C2 AE 3C 03 LDX LEVEL C518 E8 INX C50B E8 INX C50B A9 C5 LDA #GREEN C5BD A9 21 LDA #33 C513 A2 01 LDX #1 C5BF 8D 04 D4 STA WWJEFORM C515 9D F0 D8 L00P32 STA 55536,X C5C2 AE 3C 03 LDX LEVEL C519 E0 1E CPX #30 C5C8 A9 00 LDA #0 C51D A2 01 LDX #1 C5CB BD 05 D4 STA WWJEFORM C51D A2 01 LDX #1 C5CD BD 05 D4 STA ATTACK C51F 9D 40 D9 L00P33 STA 55616,X C5CD 8D 05 D4 STA ATTACK C5T9 D4 01 D9 L00P33 STA 55616,X C5CD 8D 05 D4 STA ATTACK C5T9 D4 01 D9 L00P33 STA 55616,X C5CD 8D 05 D4 STA ATTACK C5T9 D5 D4 D9 L00P33 STA 55616,X C5CD 8D 05 D4 STA RELEASE	C4FC F0 06		BEQ	NEXT31	C5A8 A9 0A		LDA	
C501 E8	C4FE 9D 00 05		STA	1280,X	C5AA A2 00	DEFENSET	LDX	#0
CS04 A2 00 NEXT31	C501 E8		INX	100000	C5AC 18	BEEPSET	CLC	DI AVED
C506 BD 4B C5 LODP31	C502 DU F5	NEYT31	RINE	#N	C5R0 F8		INX	PLATER
C509 F0 06 BEQ NEXT32 C583 D0 F7 BNE BEEPSET C508 B9 04 70 5 STA 1351,X C585 8D 01 D4 STA V1HI C50E B8 INX C588 8D 01 D4 STA V1HI C50F D0 F5 BNE L00P31 C58A 8D 00 D4 STA V1L0 C511 A9 05 NEXT32 LDA #GREEN C58D A9 21 LDA #33 C513 A2 01 LDX #1 C58B 8D 04 D4 STA WAVEFORM C515 9D F0 D8 L00P32 STA 55536,X C502 AE 3C 03 LDX LEVEL C518 E8 INX C50E A9 00 LDA #0 C519 E0 1E CPX #30 C50E A9 00 LDA #0 C519 D0 F8 BNE L00P32 C5CA 8D 04 D4 STA WAVEFORM C51D A2 01 LDX #1 C50E A9 00 LDA #0 C51D A2 01 LDX #1 C50E A9 00 STA WAVEFORM C51D A2 01 LDX #1 C50E A9 00 STA WAVEFORM C51D A2 01 LDX #1 C50E A9 00 STA WAVEFORM C51D A2 01 LDX #1 C50E BD 05 D4 STA ATTACK C51F 9D 40 D9 L00P33 STA 55616,X C50D 8D 05 D4 STA RELEASE	C504 A2 00 C506 BD 4B C5	100P31	I DA	TABLET.X	C5B1 E0 OA		CPX	#10
C508 9D 47 05	C509 F0 06	200.0.	BEQ	NEXT32	C5B3 D0 F7		BNE	BEEPSET
CSDE E8 INX C588 A9 25 LDA #37 C50F D0 F5 BNE LOOP31 C5BA 8D 00 D4 STA V1LO C511 A9 05 NEXT32 LDA #GREEN C58D A9 21 LDA #33 C513 A2 01 LDX #1 C5BF 8D 04 D4 STA WAVEFORM C515 9D F0 D8 LOOP32 STA 55536,X C5C2 AE 3C 03 LDX LEVEL C518 E8 INX C5C5 20 8A C3 JSR DELAY C519 E0 1E CPX #30 C5C8 A9 00 LDA #0 C518 D0 F8 BNE LOOP32 C5CA 8D 04 D4 STA WAVEFORM C51D A2 01 LDX #1 C5CD 8D 05 D4 STA ATTACK C51F 9D 40 D9 LOOP33 STA 55616,X C500 8D 05 D4 STA RELEASE C572 F8 INX C503 60 BTS	C50B 9D 47 05		STA	1351,X	C5B5 8D 01 D4		STA	
C511 A9 05 NEXT32 LDA #GREEN C58D A9 21 LDA #33 C513 A2 01 LDX #1 C58F 8D 04 D4 STA WAVEFORM C515 9D F0 D8 L00P32 STA 55536,X C5C2 AE 3C 03 LDX LEVEL C518 E8 INX C5C5 20 8A C3 JSR DELAY C519 E0 1E CPX #30 C5C8 A9 00 LDA #0 C51B D0 F8 BNE L00P32 C5CA 8D 04 D4 STA WAVEFORM C51D A2 01 LDX #1 C5CD 8D 05 D4 STA ATTACK C51F 9D 40 D9 L0P33 STA 55616,X C500 8D 05 D4 STA ATTACK C575 9D 40 D9 L0P33 STA 55616,X C500 8D 06 D4 STA RELEASE C572 5E	C50E E8		INX	100004	C5B8 A9 25		LDA	
C513 A2 01 LDX #1 C59 BD 04 D4 STA WAVEFORM C515 9D F0 D8 L00P32 STA 55536,X C5C2 AE 3C 03 LDX LEVEL C518 E8 INX C5C5 20 8A C3 JSR DELAY C519 E0 1E CPX #30 C5C8 A9 00 LDA #0 C518 D0 F8 BNE L00P32 C5CA 8D 04 D4 STA WAVEFORM C51D A2 01 LDX #1 C5CD 8D 05 D4 STA ATTACK C51F 9D 40 D9 L00P33 STA 55616,X C500 8D 06 D4 STA RELEASE C572 E8 INX C5C3 60 BTS	C5UF DU F5	NEVTOO	RIAF	LUUP3 I #CDEENI	C5BD 40 21		PIA	
C515 9D FO D8 LOOP32 STA 55536,X C502 AE 3C 03 LDX LEVEL C518 E8 INX C5C5 20 8A C3 JSR DELAY C519 E0 1E CPX #30 C5C8 A9 00 LDA #0 C51B D0 F8 BNE LOOP32 C5CA 8D 04 D4 STA WAVEFORM C51D A2 01 LDX #1 C5CD 8D 05 D4 STA ATTACK C51F 9D 40 D9 LOOP33 STA 55616,X C5D0 8D 06 D4 STA RELEASE C523 E0 40 D9 LOOP33 STA 55616,X C5D0 8D 06 D4 STA RELEASE C523 E0 40 D9 LOOP33 STA 55616,X C5D0 8D 06 D4 STA RELEASE	C513 A9 U5	INEX 132	LDA	#UNEEN #1	C5BF 8D 04 D4		STA	
C518 E8 INX C505 20 8A C3 JSR DELAY C519 E0 1E CPX #30 C508 A9 00 LDA #0 C518 D0 F8 BNE L00P32 C50A 8D 04 D4 STA WAVEFORM C51D A2 01 LDX #1 C50D 8D 05 D4 STA ATTACK C51F 9D 40 D9 L00P33 STA 55616,X C50D 8D 06 D4 STA RELEASE C525 E8 INX	C515 9D FO D8	L00P32	STA	55536.X	C5C2 AE 3C 03		LDX	
C519 E0 1E	C518 E8		INX		C5C5 20 8A C3		JSR	DELAY
C51B DU F8 BNE LOUP32 C5CA 8D 04 D4 S1A WWVEFURM C51D A2 01 LDX #1 C5CD 8D 05 D4 STA ATTACK C51F 9D 40 D9 LOOP33 STA 55616,X C5D0 8D 06 D4 STA RELEASE C522 E8 INY C533 60 RTS	C519 E0 1E		CPX	#30	C5C8 A9 00		LDA	
C51F 9D 40 D9 LOOP33 STA 55616,X C5D0 8D 06 D4 STA RELEASE	C51B D0 F8		BNE	LOOP32	CECD RD OF DA		SIA	
0511 3D 40 D3 E301 3D 1017.	C51E OD 40 D0	100533	LUX STA	# I 55616 X	C5D0 8D 06 D4		STA	
U322 E0 114X 0050 000	C522 E8	EUOF 33	INX	אוטויסט	C5D3 60		RTS	

# Nessie Source Code

#### Source code by Charles Brannon

C000		*=	\$C000	C04A 8D 1B D0		STA	53275 #5 INITDIR #128 XPOSL,X YPOS,X #0 XPOSH,X COLTAB+2,X SPROCOL+2,X PTRS+2,X 2042,X  #0 MAKEBEAST COLTAB SPROCOL COLTAB+1 PTRS 2040 CRXMSB #160 CRXMSB #160 CRXMSB #160 CRXMSB PREX SPREX SPREX 4 #0 SPREX SPREX 4 #0 UR SPROCOL #1 #1 #0 #0 #1 #1 #0 #1 #1 #1 #1 #1 #1 #2 #2 #255 ENABLE #4 #5 SPMC0 #4 SPMC1 #1 INITGAME #4   #4   #4   #4   #4   #4   #4   #4
:			40000	C04D A2 05		IDX	#5
C000	BITS	-	7	C04F 20 BD C1	MAKEBEAST	JSR	INITDIR
C000	٧	100	53248	C052 A9 80		LDA	#128
C000	SPRITES	=	\$3800	C054 9D CD CB		STA	XPOSL,X
C000	INPTR	=	\$FB	C057 9D D3 CB		STA	YPOS,X
C000	OUTPTR	=	\$FD	C05A A9 00		LDA	#0
C000	SID	=	\$D400	C05C 9D C7 CB		STA	XPOSH,X
0000	KANDUM	=	\$D41B	C05F BD 18 C7		LDA	COLTAB+2,X
C000	SPHEX	=	V	C062 9D 29 D0		STA	SPROCOL + 2,X
C000	SPHT	==	V+1	CU65 BD 20 C7		LUA	PIRS+2,X
C000	ENIADI E	_	V T 10	COOD SU PA U/		SIA	2042,X
C000	CEAA	_	V ∓ Φ13 V <b>⊥</b> Φ17	COOD ON		ACL	
C000	MSPRITE	=	V+\$1C	COOC OA		TAV	
C000	SEXX	=	V+\$1D	C06E A9 00		IDA	#0
C000	SBCOLZ	=	V+\$1F	C070 99 05 D0		STA	SPRY + 4 V
C000	SSCOLZ	===	V+\$1E	C073 CA		DFX	0
C000	VBORDER	=	V+\$20	C074 10 D9		BPL	MAKEBEAST
C000	VBACKGR	=	V+\$21	C076 AD 16 C7		LDA	COLTAB
C000	SPMC0	=	V+\$25	C079 8D 27 D0		STA	SPR0COL
C000	SPMC1	=	V+\$26	C07C AD 17 C7		LDA	COLTAB + 1
C000	SPR0COL	==	V+\$27	C07F 8D 28 D0		STA	SPR0COL+1
C000	STROUT	=	\$AB1E	C082 AD 1E C7		LDA	PTRS
C000 A9 47	INIT	LDA	# <shapes< td=""><td>C085 8D F8 07</td><td></td><td>STA</td><td>2040</td></shapes<>	C085 8D F8 07		STA	2040
C002 85 FB		SIA	INPIR	C088 AD 1F C7		LDA	PTRS+1
C004 A9 U/		LUA	#>SHAPES	C08B 8D F9 07		STA	2041
C000 00 FC		SIA	INPIK+I	CUSE A9 UU		LDA	#0
COOR AS OU		CTA	#<5PHILES	C003 40 40		SIA	CHXMSB
COOK 03 15		LDA	#~ CDBITEC	COSS AS AU		CTA	#10U
CODE 85 FF		STA	OUTPTR+1	C093 8D 00 D0		STA	CDDEA
C010 A2 04		IDX	#4	C09B 8D 02 D0		STA	SPREY + 2
C012 A0 FF		LDY	#255	C09F A9 80		LDA	#128
C014 B1 FB	MOVSHAP	LDA	(INPTR),Y	COAO 8D ED CB		STA	CROSSY
C016 91 FD		STA	(OUTPŤR),Y	C0A3 8D 01 D0		STA	SPRY
C018 88		DEY		COA6 8D 03 D0		STA	SPRY+2
C019 C0 FF		CPY	#255	COA9 A9 FF		LDA	#255
C01B D0 F7		BNE	MOVSHAP	COAB 8D 15 DO		STA	Enable
COID E6 FC		INC	INPTR+1	COAE 8D 1C DO		STA	MSPRITE
COST CA		INC	OUIPIR+1	COB1 A9 03		LDA	#3
C021 GA C022 30 07		DEX	OUT	COBS 8D 10 DO		SIA	SEXX
C024 D0 FF		DNE	MUNCHAD	COBO NO OS		SIA	SEXY
C026 A0 7F		LUA	#127	CODS AS OU		CTA	#0 \/DODDED
C028 4C 14 C0		IMP	MOVSHAP	CORE 8D 21 DO		STA	ADOUDED
CO2B C6 FE	OUT	DEC	OUTPTR+1	COC1 A9 05		IDA	#5
C02D A0 80		LDY	#128	COC3 8D 25 DO		STA	SPMC0
C02F A9 00		LDA	#0	COC6 A9 04		LDA	#4
C031 91 FD	CLOOP	STA	(OUTPTR),Y	C0C8 8D 26 D0		STA	SPMC1
C033 C8		INY	` '	COCB A9 01		LDA	#1
C034 D0 FB		BNE	CLOOP	COCD 8D F6 CB		STA	DUR
C036 A9 FF		LDA	#255	C0D0 20 E7 C1		JSR	INITGAME
C038 8D 0E D4		STA	\$D40E	C0D3 78		SEI	
C03R 8D 0F D4		STA	\$D40F	C0D4 A9 76		LDA	# <irq< td=""></irq<>
CO40 0D 12 D4		LUA	#128	CUD6 8D 14 03		STA	\$314
C040 0D 12 D4		SIA	<b>Φ</b> D412	CODD AD 45 AA		LDA	#>IRQ
C045 RD 18 D4		CTA	#U \$D#19	CODE 20 12 03		SIA	<b>\$315</b>
C048 A9 FC		I DA	φυ <del>4</del> 10 #252			ULI	
55 10 NO 10		LUM	TT LUL	•			

CODF AO 00	MAIN	LDY	#0	C183 29 03		AND	#3
C0E1 84 07		STY	BITS	C185 05 07		ORA	BITS
C0E3 98	CREATURE	TYA		C187 8D 10 D0		STA	SXMSB
COE4 OA		ASL		C18A AE F5 CB		LDX	SPEED
COES AA		IAX	VDOCILY	C18D FU U8		RECI	NUDELAY
COED 44		LUA	XPUSH,Y	C101 AU UU	DEL AV	LDI	#U
COES 4A		LOD	DITC	C102 D0 ED	DELAI	RNE	DEL AV
CUEA DO U/		I DA	YPOCI V	C194 CA		DEX	DLLAI
COFF 9D 04 D0		STA	SPREX + 4.X	C195 D0 FA		BNE	DELAY
C0F2 B9 D3 CB		LDA	YPOS.Y	C197 AD 1B D4	NODELAY	LDA	RANDOM
C0F5 9D 05 D0		STA	SPRY+4,X	C19A C9 80		CMP	#128
C0F8 C9 32		CMP	#50	C19C 90 0B		BCC	NOCHANGE
COFA 90 07		BCC	NOK1	C19E AD 1B D4	ANOTHER	LDA	RANDOM
COFC C9 E5		CMP	#229	C1A1 C9 U6		CMP	#6 ANOTHER
COFE BO 03		BCS	NUK1	CIAS BU F9		BUS	ANUIHER
C100 4C UE C1	NOV1	JIVIP	VDID V	C1AS AA C1A6 20 BD C1		IAA	INITOIR
C103 D9 E3 UB	NONT	EOR	#255	C1A0 20 BD C1	NOCHANGE	JSR	\$FFF4
C100 43 11		CLC	π200	C1AC FO OC	HOOFFAIGE	BFO	NOFRFF7F
C109 69 01		ADC	#1	C1AE C9 88		CMP	#"{F7}"
C10B 99 E5 CB		STA	YDIR,Y	C1B0 D0 03		BNE	Frèezé
C10E B9 C7 CB	CHECK2	LDA	XPOSH,Y	C1B2 4C D0 C5		JMP	REGAME
C111 FO 0A		BEQ	CHECK3	C1B5 20 E4 FF	FREEZE	JSR	\$FFE4
C113 B9 CD CB		LDA	XPOSL,Y	C188 F0 FB	NOFFETT	BEQ	FREEZE
C116 C9 40		CMP	#\$40	CIBA 4C DF CU	NUFREEZE	JIVIP	IVIAIIV 40
C110 BU UD		IMP	OVERNOR	C1RE 9D DE CR	חוטווווו	STA	XUIBH X
C11D R9 CD CR	CHECK3	I DA	XPOSL Y	C1C2 AD 1B D4		I DA	RANDOM
C120 C9 18	OFFICE	CMP	#\$18	C1C5 29 03		AND	#3
C122 90 03		BCC	NOK2	C1C7 A8		TAY	
C124 4C 3E C1		JMP	OVERNOK	C1C8 B9 3C C7		LDA	M0VY,Y
C127 A9 00	NOK2	LDA	#0	C1CB 9D D9 CB		STA	XDIR,X
C129 99 DF CB		STA	XDIRH,Y	C1CE C9 FF		CMP	#255 NOTNEO
C12C B9 D9 CB		LDA	XDIK,Y	C1D0 D0 03		BINE	VDIDLIV
C12F 49 FF		CLC	#200	C1D2 9D DF CD	NOTNEG	IDA	RANDOM
C132 69 01		ADC	#1	C1D8 29 03	HOMEG	AND	#3
C134 99 D9 CB		STA	XDIR.Y	C1DA A8		TAY	
C137 C9 FF		CMP	#255	C1DB B9 3C C7		LDA	M0VY,Y
C139 D0 03		BNE	OVERNOK	C1DE 9D E5 CB		STA	YDIR,X
C13B 99 DF CB		STA	XDIRH,Y	C1E1 1D D9 CB		ORA	XDIR,X
C13E B9 FA 07	OVERNOK	LDA	2042,Y	C1E4 F0 D7		BEQ	INITDIR
C141 49 01		EUH	#1 2040 V	C1E0 00	INITOANAC	KI2	40
C145 99 FA U/		2 IA	2042,1 YDID V	C1E7 A9 00	INITIGAINE	STA	SCORE
C140 D5 D5 CB		TAY	ADIN, I	C1EC 8D E0 CB		STA	SCORF+1
C14A B9 FA 07		LDA	2042.Y	C1EF 8D F1 CB		STA	TIMER
C14D 09 02		ORA	#2	C1F2 8D F2 CB		STA	TIMER + 1
C14F 99 FA 07		STA	2042,Y	C1F5 8D F3 CB		STA	LENS
C152 E0 01		CPX	#1	C1F8 8D 4C CC		STA	GAME
C154 F0 05		BEQ	NOTURN	C1FB A9 14		LUA	#20
C156 49 U2		EUH	#Z	C1FD 8D F4 CB		SIA	FILIVI #E
C158 99 FA U/	MOTUDN	CLC	2042,1	C200 A9 03		STA	SDEED.
C15C RQ CD CR	NOTONIA	I DA	XPOSL Y	C205 A9 RF		LDA	# <topi in<="" td=""></topi>
C15E 79 D9 CB		ADC	XDIR.Y	C207 AO C2		LDY	#>TOPLIN
C162 99 CD CB		STA	XPOSL,Y	C209 20 1E AB		JSR	STROUT
C165 B9 C7 CB		LDA	XPOSH,Y	C20C A9 F0		LDA	#<0PTMSG
C168 79 DF CB		ADC	XDIRH,Y	C20E A0 C2		LDY	#>OPTMSG
C16B 99 C7 CB		SIA	XPOSH,Y	C210 20 1E AB	CETAVEV	JSK	SIHUUI
C16E DO DO OD		ULC	VDOC V	0213 20 E4 FF	GEIARET	BEU JOH	φΓΓΕ4 GFTΔKEV
C172 70 EE CD		VDC LDA	rruo, r VNIR V	C218 C0 85		CWD	#"{F1\"
C175 99 D3 CB		STA	YPOS Y	C21A D0 12		BNE	NOTF1
C178 C8		INY	00,1	C21C A9 E0		LDA	#\$E0
C179 C0 06		CPY	#6	C21E 8D F8 07		STA	2040
C17B F0 03		BEQ	DONEX	C221 A9, E1		LDA	#\$E1
C17D 4C E3 C0		JMP	CREATURE	C223 8D F9 07		STA	2041
C180 AD 10 D0	DONEX	LDA	#0 BITS  XPOSH,Y  BITS XPOSL,Y SPREX+4,X YPOS,Y SPRY+4,X #50 NOK1 #229 NOK1 CHECK2 YDIR,Y #255 #1 YVPOSH,Y CHECK3 XPOSL,Y #\$40 NOK2 OVERNOK WOK2 OVERNOK WOSL,Y #\$18 NOK2 OVERNOK WOSL,Y #\$18 NOK2 VERNOK YPOSL,Y #\$17 XDIR,Y #255 WITH XDIR,Y #255 WYENOK XDIRH,Y YPOSL,Y XDIR,Y YPOSL,Y XPOSL,Y XPOSL,Y XPOSL,Y XPOSH,Y XPOSH,Y XPOSH,Y XPOSH,Y YPOS,Y YPOS,Y YPOS,Y YPOS,Y YPOS,Y #6 DONEX CREATURE SXMSB	C226 A9 00		LDA	#U

C228 8D F3 CB		STA	LENS GETAKEY #"{F3}" NOTE3 #\$E2 2040 #1 #1 LENS GETAKEY #"\$F5]" NOTE5 SPEED SPEED SPEED NOTNINE #9 SPEED #10 OVERIT #0 SPEED #10 OVERIT #0 GETAKEY #"{F7}" GOGAME #"{F7}" GOGAME #"{F7}" GOGAME #"{F7}" GOGAME #"160 OUTPTR RANDOM #167 NOGOOD OUTPTR RANDOM #3  #4 OUTPTR+1 #160 (OUTPTR),Y OUTPTR+1 #5D4 SPEED	C2EE 0D 00	ODTMCC	.BYT	13,0 " [~6~](B)(\$) E1 (0
C22E C9 86	NOTF1	CMP	#"{F3}"	0210 99 12 40	UFTIVISU	.ASU	"   6>  {RVS}F1{0 FF}:TELEPHOTO {R VS}F3{0FF}: <u>W</u> id e Angle" " {RVS}F5{0FF}: <u>S</u> PEED"
C230 D0 12		BNE	NOTF3 #\$F2				VS}F3{OFF}: <u>W</u> ld e Angle"
C234 8D F8 07		STA	2040	C30F 20 12 46		.ASC	" {RVS}F5{0FF}: <u>S</u>
C237 A9 E3 C239 8D E9 07		LDA STA	#\$E3 2041	C31A OD		.BYT	PEED" 13
C23C A9 01		LDA	#1	C31B 12 46 37		.ASC	"{RVS}F7{OFF}:EA SY GAME {RVS}F8 {OFF}:Hard Game"
C23E 8D F3 CB		SIA JMP	GETAKEY				{OFF}:Hard Game"
C244 C9 87	NOTF3	CMP	#"{F5}"	C338 00	10)/140)/5	.BYT	) ,
C246 D0 1E C248 EE F5 CB		INC	NUTF5 SPEED	C339 AD 00 DC	JOHNOVE	PHA	30320
C24B AD F5 CB		LDA	SPEED	C33D 29 10		AND	#16
C24E 10 05 C250 A9 09		LDA	#9	C342 68		PLA	FINE
C252 8D F5 CB	MOTAINE	STA	SPEED #10	C343 29 0F		AND	#15 #15
C257 90 05	NUTNINE	BCC	OVERIT	C345 49 UF		TAX	#13
C259 A9 00		LDA	#0	C348 18		CLC	CBUGGA
C25E 09 30	OVERIT	ORA	#48	C345 AD EB CB		ADC	LMOVX,X
C260 8D 06 04		STA	1030	C34F 8D EB CB		STA	CROSSX
C266 C9 88	NOTF5	CMP	#"{F7}"	C355 8D 02 D0		STA	SPREX+2
C268 FO 33		BEQ	GOĞAME #"(FR)"	C358 AD EC CB		LDA ADC	CRXMSB HMOVX X
C26C D0 A5		BNE	GETAKÉY	C35E 8D EC CB		STA	CRXMSB
C26E EE 4C CC		INC	GAME GOGAME	C361 4A C362 08		LSR	
C274 A2 32		LDX	#50	C363 AD 10 D0		LDA	SXMSB
C276 AO 28 C278 AD 18 D4	NOGOOD	LDY I DA	#40 RANDOM	C366 4A C367 4A		LSR LSR	
C27B C9 A7	подоов	CMP	#167	C368 28		PLP	
C27D B0 F9 C27F 85 FD		BCS STA	NOGOOD OUTPTR	C369 08 C36A 2A		PHP ROL	
C281 AD 1B D4		LDA	RANDOM	C36B 28		PLP	
C284 29 03 C286 18		CLC	#3	C36C 2A C36D 8D 10 D0		KUL STA	SXMSB
C287 69 04		ADC	#4	C370 18		CLC	onoccy
C289 85 FE C28B A9 A0		SIA LDA	001P1K+1 #160	C371 AD ED CB		ADC	MOVY,X
C28D 91 FD		STA	(OUTPTR),Y	C377 8D ED CB		STA	CROSSY
C28F A3 FE C291 69 D4		ADC	#\$D4	C37D 8D 03 D0		STA	SPRY+2
C293 85 FE		STA	OUTPTR+1	C380 AD EE CB		LDA	FIRE
C297 91 FD		STA	(OUTPTR),Y	C385 A9 00		LDA	#0
C299 CA		DEX	NOGOOD	C387 8D F7 CB		STA	YESFIRE #1
C29C 60		RTS	NOGOOD	C38C 8D F6 CB		STA	DUR
C29D A9 BF C29F A0 C2	GOGAME	LDA	# <toplin #&gt;TOPLIN</toplin 	C38F 4C A0 C3	FRAME	JMP	EXPIRED YESFIRE
C2A1 20 1E AB		JSR	STROUT	C395 F0 17	TTOWNS	BEQ	DOFR
C2A4 AD F5 CB		LDA OBA	SPEED #48	C397 AD F6 CB C39A F0 04		LDA RFO	DUR EXPIRED
C2A9 8D 06 04		STA	1030	C39C CE F6 CB		DEC	DUR
C2AC 38 C2AD A9 09		SEC LDA	#9	C39F 60 C3AO A9 06	EXPIRED	RIS LDA	#6 .
C2AF ED F5 CB		SBC	SPEED	C3A2 8D 20 D0		STA	VBORDER
C2B2 8D F5 CB		ASL	SPEED	C3A5 8D 21 DU C3A8 A9 80		LDA	#128
C2B8 OE F5 CB		ASL	SPEED	C3AA 8D 04 D4		STA	SID+4
C2BE 60		asl RTS	2LFFD	C3AE CE 26 04	DOFR	DEC	1062
C2BF 93 92 0E	TOPLIN	ASC	"{CLR} {OFF} {N} {	C3B1 AD 26 04		LDA	1062
			5 [<7>]Nessie [<8	C3B6 B0 14		BCS	OK
			>]Film Left:{YEL}20				

C3B8 A9 39	LDA	#"9"	C46C C9 05		CMP	#5
C3BA 8D 26 04	STA	1062	C46E DD 05		BNE	NOVEL
C3DD CE 3E 04	סות	1002	0402 00 00		DIVE	NOTEL 47
C35D CE 23 U4	DEC	1001	C470 A9 U7		LDA	#/
U3CU AD 25 U4	LDA	1061	C472 8D 28 D0		STA	SPR0COL+1
C3C3 C9 31	CMP	#"1"	C475 60	NOYEL	RTS	
C3C5 B0 05	BCS	OK	C476 20 89 C4	IRO	JSR	INCTIM
C3C7 AQ 20	LDA	#32	C470 20 20 C2		ICD	IOVAZOVE
0300 AD 35 04	CTA	1001	0479 20 33 03		JOH	JUTIVIOVE
C3C9 6D 23 04	SIA	1001	04/0 40 31 EA		JMP	\$EA31
C3CC A9 1F OK	LDA	#\$1F	C47F 20 82 C4	WAIT60	JSR	WAIT
C3CE 8D 05 D4	STA	SID+5	C482 AD 12 D0	WAIT	LDA	\$D012
C3D1 8D 18 D4	STA	SID + 24	C485 C9 FF		CMP	#255
C3D4 AQ D3	LDA	#3	C497 DO EQ		DNE	MAIT
C3DC 0D 0C D4	CTA	mu CID I C	0400 EE E4 OD	DIOTILA	DIVE	VVAII
0300 00 00 04	SIA	310十0	C409 EE FI UB	INCTIVI	INC	HMEK
C3D9 A9 FF	LUA	#255	C48C D0 03		BNE	NOINC
C3DB 8D 00 D4	STA	SID	C48E EE F2 CB		INC	TIMER+1
C3DE 8D 01 D4	STA	SID+1	C491 60	NOINC	RTS	
C3F1 8D 04 D4	STA	SID+4	C492 49 93	GAMEOVER	IΠΔ	#"(CLB)"
C3E4 VO 04	IDA	44	C404 20 D2 EE	UNIVILOVEIT	LDA	# forit
0000 00 44 00	CTA	#4 ***	0494 20 DZ FF		Jon	<b></b>
C3E6 8D 4A CC	SIA	MASK	C497 A9 00		LUA	#0
C3E9 A2 06	LDX	#6	C499 8D 20 D0		STA	VBORDER
C3EB AC F4 CB	LDY	FILM	C49C 8D 21 D0		STA	VBACKGR
C3FF 88	DEY		C49F 78		SEL	
CSEE VO UU	IDA	#0	C440 40 0E		LOA	# -DACTED
C2E1 00 20 CC	CTA	#ODDED V	C440 0D 44 00		CTA	π<π∧olen
C3F1 99 20 CC	SIA	BURDER, Y	C4A2 8D 14 U3		SIA	\$314
C3F4 AD 4A CC BCOLZ	LDA	MASK	C4A5 A9 C6		LDA	#>raster
C3F7 09 02	ORA	#2	C4A7 8D 15 03		STA	\$315
C3F9 8D 15 D0	STA	FNARI F	C4AA A9 01		LDA	#1
C3FC AD 1F D0	IDΔ	SSCOL7	CAAC RD 14 DO		STA	\$D01A
COSE OF TE CA	ICD	WAITED	CAAE AO 1D		104	400 IA
0400 40 45 00	JON	WAII OU	CHAP AS ID		LUA	#21
C402 AD 1E D0	LDA	SSCULZ	C4B1 8D 11 D0		SIA	\$D011
C405 29 FD	and	#253	C4B4 A9 32		LDA	#50
C407 19 20 CC	ORA	BORDER.Y	C4B6 8D 12 D0		STA	\$D012
C40A 99 20 CC	STA	BORDER.Y	C4B9 A9 7F		LDA	#127
CAUD OF AV CC	ACI	MVCK	CABB BD UD DC		CTA	&DC0D
C410 CA	UCA	WINGIN	CADE AD EE		JIA	4DC0D
0444 DO C4	DEV	00017	04DE A9 FF		LUA	#200
C411 DU E1	RNE	BCOLZ	C4C0 8D 1B D0		SIA	53275
C413 A9 01	LDA	#1	C4C3 A9 00		LDA	#0
C415 8D 20 D0	STA	VBORDER	C4C5 8D 4B CC		STA	WHICH
C418 8D 21 D0	STA	VBACKGR	C4C8 A9 1F		LDA	#31
C41B 8D F7 CB	STA	YESEIRE	C4C4 8D 15 D0		STA	EMARI E
C41E AD 04	OIV.	44	CACD AD EE		LDA	LINADLE
0400 00 44 00	LUA	# <del>**</del>	040D A9 FF		LUA	#200
C420 8D 4A CC	SIA	MASK	CACE 8D 1D DO		SIA	SEXX
C423 A2 U6	LDX	#6	C4D2 8D 17 D0		STA	SEXY
C425 A9 00	LDA	#0	C4D5 A9 10		LDA	#16
C427 99 34 CC	STA	HAIR Y	C4D7 8D 10 D0		STA	SXMSR
C42A AD 4A CC HCOL7	IDΔ	MASK	CADA A2 00		INY	#0
C/2D 00 01	ODA	#1	CADC DA	INITIV	TVA	#0
C40F 0D 4F D0	OTA	THE CAMPIE	0400 04	INITIA	IAA	
C42F 8D 13 DU	SIA	ENABLE	C4DD UA		ASL	
C432 AD 1E DU	LDA	SSCOLZ	C4DE A8		TAY	
C435 20 7F C4	JSR	WAIT60	C4DF 0A		ASL	
C438 AD 1E D0	LDA	SSCOLZ	C4E0 0A		ASL	
C43B 29 FF	AND	#254	CAF1 DA		ASI	
C43D 10 34 CC	ODA	LIAIDV	CAES DA		ACI	
C440 00 24 CC	OTA	I IAID V	04E2 UA		MOL.	
C440 99 34 CC	SIA	HAIR, Y	C4E3 UA		ASL	
C443 OE 4A CC	ASL	MASK	C4E4 18		CLC	
C446 CA	DEX		C4E5 69 1D		ADC	#29
C447 D0 E1	BNE	HCOLZ	C4F7 99 00 D0		STA	SPREX Y
C449 AD 1F DO	LDA	SRCOL7	CAEV VO UO		LDA	#0
C44C 20 7E C4	ICD	MAITEO	0400 00 07 00		CTA	CDDOOOL V
0-10 40 1F 04	JON	CDCCL 7	04EC 9D 21 DD		SIA	OLUNOT'Y
C44F AD 1F D0	LDA	SBCOLZ	C4EF E8		INX	
C452 99 F8 CB	STA	garbage,y	C4F0 E0 05		CPX	#5
C455 AD 00 DC	LDA	56320	C4F2 D0 E8		BNE	INITIX
C458 29 0F	AND	#15	C4F4 58		CLI	
C45A 49 0F	FUD	#15	CAES A2 12		I DV	#10
C45C 00 0C CC	CTA	II II II V	CAET AD DO		LDV	π13 μ0
0400 33 00 00	SIA	DLUR, I	04F0 PD F0 00	TALLY	LDI	#U
C43F A9 FF	LDA	#255	C4F9 BD F8 CB	IALLY	LUA	GAHBAGE,X
C461 8D 15 D0	STA	ENABLE	C4FC 29 03		and	#3
C464 CE F4 CB	DEC	FILM	C4FE 1D 0C CC		ORA	BLUR,X
C467 AD F4 CB	LDA	FILM	C501 FO OA		BEQ	NOTBLUR
C46A FO 26	BFO	GAMFOVER	C503 A9 F1		LDA	#\$F1
C388 A9 39 C38A 8D 26 04 C38D CE 25 04 C33C AD 25 04 C33C S9 31 C3C5 B0 05 C3C7 A9 20 C3C6 A9 1F C3C6 BD 05 C3C7 A9 20 C3C6 A9 1F C3C6 BD 05 C3C7 A9 20 C3C6 A9 1F C3C7 A9 20 C40	DLU		5500 710 1 1		2011	

CSSS 98 65 C6									
CSBA 40 00	C505 99 65 C6		STA	WHAT,Y	C5E	30 AD F3 CB		LDA	LENS
CSD   BD 34   CC   NOTBLUR   ADD   HARIX   CSB   AB   30   CC   CSD   ADD   ADD   CSD   ADD   ADD   HARIX   CSB   CSB   ADD   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   CSB   ADD   ADD   HARIX   CSB   CSB   ADD   ADD   ADD   HARIX   CSB   CSB   ADD   ADD   ADD   HARIX   CSB   ADD   ADD   ADD   HARIX   CSB   ADD   ADD   ADD   HARIX   CSB   ADD   ADD   ADD   ADD   HARIX   CSB   ADD   ADD   ADD   ADD   HARIX   CSB   ADD   AD	C508 A9 00		LDA	#0	C5E	33 D0 05		BNE	FB0
SSID 29 40 C   NOTIBLUM   MAIN	C50A 4C 56 C5	NOTOLUD	JMP	XXX	CSE	85 A9 30		LUA	#"U"
CS12 D0 94	C50D BD 34 CC	NOIBLUK	LUA	HAIH,X	CSI	37 20 DZ FF	EBU .	IDA	ֆ୮୮U2 #120
CS17 DO DO N	C510 29 40 C512 D0 2C		RNE	NESSIE	C5F	C 20 7F C4	DELAY2	JSR	WAIT60
SST 00   DA   SNE	C514 BD 34 CC		LDA	HAIR.X	C5E	SF CA	522,112	DEX	
CS18   99   65   65   65   65   65   65   65	C517 D0 0A		BNE	NOTBLANK	C50	00 D0 FA		BNE	DELAY2
SSIB 99 65 65	C519 A9 F2		LDA	#\$F2	C50	22 AD 00 DC	FB1	LDA	56320
SSI 24   SS   CS   CS   CS   CS   CS   CS   C	C51B 99 65 C6		STA	WHAT,Y	C50	25 29 10		AND	#16
SS28   96   40   CC   CC   CC   CC   CC   CC   CC	C51E A9 UU		LUA	#U VVV	CSC	7 FU F9	ED2 .	I DA	FB1 56320
CS26 B 3	C520 4C 56 C5	NOTRI ANK	STY	TEMP	C50	C 29 10	102	AND	#16
CS2B AA	C526 BD 34 CC	HOIDEANN	LDA	HAIR.X	C50	DE DO F9		BNE	FB2
CS2E 80   BLOOP   LSR   BCS   FBIT   CSD1 89 01 AD 0	C529 A2 00		LDX	#0	C5I	00 78	REGAME	SEI	
CS2E BB   OA   CS2E BC   DA   CS2E	C52B 4A	BLOOP	LSR		C51	01 A9 00		LDA	#0
CS2F 4C 2B C5	C52C B0 04		BCS	FBIT	C51	03 8D 1A DO		STA	\$D01A
SSZ BD IE C7   FBIT   LDA   FTRS.X   C3DB 89 91   LDA   MSS1	C52E E8		INX	01.000	CEI	)0 AY FF		CTA	#200 ¢ncon
SSS 99 65 66	C52F 4C 2B C5	FRIT	IDA	PTRS Y	C51	DB 6D 0D DC		IDA	#\$31
CS39 A9 05	C535 99 65 C6	1 011	STA	WHAT.Y	C51	DD 8D 14 03		STA	\$314
C539 A9 05	C538 AE 48 CC		LDX	TEMP	C5I	0 A9 EA		LDA	#\$EA
CS49 BP 20 CC NESSIE   LDA	C53B A9 05		LDA	#5	C5I	2 8D 15 03		STA	\$315
C549 BD 20 CC NESSIE   LDA   BBOD TRUENESS   C559 A2 FF   LDX   #255	C53D 4C 56 C5	1150015	JMP	XXX	C51	5 58		CLI	<b>"0</b> 55
CS45 A9 07	C540 BD 20 CC	NESSIE	LDA	BURDER,X	CE	b AZ FF		TVC	#200
CS47 99 65 C6	C545 FU UA		IDA	#&EU ##EU	CSI	10 3A 10 4C 00 C0		IMP	INIT
CS4A A9 0A	C547 99 65 C6		STA	WHAT.Y	C51	C 9F D0 4C	SCORWORD	ASC	"{CYN}PLAY AGAIN
C54F A9 EC   TRUENESS   LDA   #SEC   WHAT,Y   C60E 00   C60F AD 12 DD   RASTER   LDA   SD012   C556 49 C8   LDA   #200   C60F AD 12 DD   RASTER   LDA   SD012   C556 49 C8   LDA   #200   C60F AD 12 DD   RASTER   LDA   SD012   C556 18   XXX   CLC   C612 18   CLC   C612 18   CLC   C62	C54A A9 0A		LDA	#10	-				:SNAP SHUTTER (<
C554 A9 CC TRUENESS LDA #\$EC	C54C 4C 56 C5		JMP	XXX					7̄>]SCORE:{YEL}{R
C551 99 65 C6 SIA WHALTY C00L UD BYT U C554 A9 C8 LDA #200 C66F AD 12 D0 RASTER LDA \$0012 C556 18 XXX CLC C612 18 CLC C556 18 XXX CLC C612 18 CLC C557 6D EF CB ADC SCORE C615 8D 01 D0 STA SPRY +2 C550 AD F0 CB LDA SCORE+1 C616 8D 03 D0 STA SPRY +2 C560 89 00 ADC #0 C618 8D 05 D0 STA SPRY +4 C562 BD F0 CB STA SCORE+1 C618 8D 07 D0 STA SPRY +6 C562 BD F0 CB STA SCORE+1 C618 BD 05 D0 STA SPRY +6 C566 CA DEX C566 CA DEX C566 CA DEX C566 CB INTY C624 8D 08 D0 STA SPRY +10 C567 C0 14 CPY #20 C627 AE 4B CC LDX WHICH C569 D0 8E BNE TALLY C624 BD 08 D0 STA SPRY +10 C569 D0 8E BNE TALLY C624 BD 08 D0 STA SPRY +10 C567 C0 14 CPY #20 C627 AE 4B CC LDX WHICH C569 D0 8E BNE TALLY C624 BD 08 D0 STA SPRY +10 C567 D0 F0 C8 JSR BOXES C62D A8 TAY C566 AD EF CB LDA SCORE C625 A2 D0 61 C6 LDA LAST,X C566 AD EF CB LDA SCORE C626 A2 BD 61 C6 LDA WHAT,Y C574 F0 1D BEQ PRSCORE C633 9D F8 07 STA 2040,X C576 CB	C54F A9 EC	TRUENESS	LDA	#\$EC				D) (T	VS}"
C556 18	C551 99 65 C6		SIA	WHAI,Y	Cel	JE 00 NE AD 10 DO	DACTED	'RAI	U #D012
C557 6D EF CB	C554 A9 C8	vvv	CLC	#200	C6:	JF AD 12 DU 12 18	HASTER	CLC	\$D012
C55A 8D EF CB	C557 6D FF CB	^^^	ADC	SCORE	C6	13 69 02		ADC	#2
C550 AD FO C8  LDA  SCORE+1  C618 8D 03 D0  STA  SPRY+2  C566 69 00  ADC  #0  C618 8D 05 D0  STA  SPRY+4  C566 C8  STA  SCORE+1  C618 8D 07 D0  STA  SPRY+6  C565 CA  DEX  C621 8D 09 D0  STA  SPRY+8  C566 C8  INY  C624 8D 08 D0  STA  SPRY+8  SPRY+8  C567 C0 14  CPY  #20  C627 AE 4B CC  LDX  WHICH  C569 D0 8E  BNE  TALLY  C628 BD 61 C6  LDA  LAST,X  C568 AD EF C8  LDA  SCORE  C577 AD EF C8  LDA  SCORE  C577 AD EF C8  SCORE  LDA  SCORE  C577 AD EF C8  SCORE  C578 BD  SCORE  C579 BD  STA  SPRY+6  SPRY+10  STA  SPRY+8  SPRY+10  STA  SPRY+8  SPRY+8  SPRY+10  STA  SPRY+10  STA  SPRY+8  SPRY+10  STA  SPRY+8  SPRY+10  STA  SPRY+8  SPRY+10  STA  SPRY+4  C624 BD 09 D0  STA  SPRY+8  SPRY+10  STA  SPRY+4  SPRY+10  STA  SPRY+4  C624 BD 09 D0  STA  SPRY+8  SPRY+10  STA  SPRY+4  SPRY+10  STA  SPRY+4  C624 BD 09 D0  STA  SPRY+8  SPRY+10  STA  SPRY+4  SPRY+10  STA  SPRY+4  C624 BD 09 D0  STA  SPRY+8  SPRY+10  STA  SPRY+4  SPRY+10  STA  SPRY+4  C624 BD 09 D0  STA  SPRY+8  SPRY+10  STA  SPRY+6  SPRY+10  STA  SPRY+6  C624 BD 09 D0  STA  SPRY+6  SPRY+10  STA  SPRY+4  C624 BD 09 D0  STA  SPRY+4  C635 CB  WHICH  C636 BD  WHAT,Y  C637 AD BF CB  STA  SCORE  C633 DD F6  STA  SCORE  C638 DD  STA  SCORE  C638 DD  STA  SPRY+4  SPRY+10  STA  SPRY+4  C632 BD 07  STA  SPRY+8  SPRY+10  STA  SPRY+8  SPRY+10  STA  SPRY+8  SPRY+10  STA  SPRY+8  SPRY+10  C638 BD 07  STA  SPRY+8  SPRY+10  STA  SPRY+4  C636 CB  WHOOP  LDA  WHAT,Y  C574 F0 D  STA  SPRY+8  SPRY+10  STA  SPRY+8  SPRY+10  STA  SPRY+8  SPRY+10  STA  SPRY+4  C624 BD 09 D0  STA  SPRY+10  SPRY+10  STA  SPRY+10  SPRY+10  STA  SPRY+4  SPRY+10  STA  SPRY+4  SPRY+10  STA  SPRY+4  SPRY+10  C624 BD 09 D0  STA  SPRY+10  SPRY+10  STA  SPRY+8  SPRY+10  C637 BD  STA  SPRY+8  SPRY+10  C638 BD  STA  SPRY+8  SPRY-10  C626 AD 09 D0  STA  SPRY+4  SPRY+10  STA  SPRY+10  C626 BD  STA  SPRY-10  C626 AD 09 D0  STA	C55A 8D EF CB		STA	SCORE	C6	15 8D 01 D0		STA	SPRY
C560 69 00	C55D AD F0 CB		LDA	SCORE+1	C6	18 8D 03 D0		STA	SPRY+2
C562 8D F0 CB	C560 69 00		ADC	#0	C6	IB 8D 05 D0		STA	SPRY+4
C566 C8	C562 8D F0 CB		SIA	SCORE + 1	CP.	IE 8D 07 D0		SIA	SPRY + 6
C567 C0 14	C566 CR		INV		Ce	21 80 09 00		STA	SPRY + 10
C569 D0 8E	C567 CO 14		CPY	#20	C6:	27 AE 4B CC		LDX	WHICH
C56B 20 79 C6	C569 D0 8E		BNE	TALLY	C6:	2A BD 61 C6		LDA	LAST,X
C56E AD EF CB	C56B 20 79 C6		JSR	BOXES	C6:	2D A8		TAY	
C571 0D F0 C8	C56E AD EF CB		LDA	SCORE	C6:	2E A2 00	W# 00D	LDX	#0
C576 3B SEC C636 C8 INY C577 AD EF CB LDA SCORE C637 E8 INX C57A ED F2 CB SBC TIMER+1 C638 E0 05 CPX #5 C577 BD EF CB STA SCORE C638 D0 F4 BNE WLOOP C580 AD F0 CB LDA SCORE+1 C63C EE 4B CC INC WHICH C583 E9 00 SBC #0 C63F AD 4B CC LDA WHICH C583 E9 00 SBC #0 C63F AD 4B CC LDA WHICH C585 BD F0 CB STA SCORE+1 C64C E9 04 CMP #4 C588 AD 4C CC LDA GAME C644 D0 05 BNE RX C588 F0 06 BEQ PRSCORE C646 A9 00 LDA #0 C589 DE EF CB ASL SCORE C648 BD 4B CC STA WHICH C590 2E F0 CB ROL SCORE+1 C64B AA RX TAX C593 A2 18 PRSCORE LDX #24 C64C BD 5D C6 LDA WOSX C595 A0 00 LDY #0 C64F BD 12 D0 STA \$D012 C597 18 CLC C652 A9 01 REXIT LDA #1 C598 20 F0 FF JSR \$FFF0 C654 8D 19 D0 STA \$D019 C598 A9 EC LDA # <scorword 6b="" a9="" aa="" ab="" ad="" bd="" c0="" c548="" c54c="" c550="" c556="" c558="" c559="" c599="" c5<="" c654="" c655="" c656="" c659="" c65f="" cb="" cba="" cd="" en="" f0="" i1="" ie="" jsr="" lda="" pla="" score="" score+1="" strout="" tax="" tay="" td=""><td>C571 UD FU CB</td><td></td><td>DEO</td><td>SCURE + 1</td><td>CE</td><td>30 B9 65 C6</td><td>WLUUP</td><td>CTA</td><td>WITA1,1</td></scorword>	C571 UD FU CB		DEO	SCURE + 1	CE	30 B9 65 C6	WLUUP	CTA	WITA1,1
C577 AD EF CB	C576 38		SEC	FROCURE	C6	36 CR		INY	2040,7
C57A ED F2 CB         SBC         TIMER+1         C638 E0 05         CPX         #5           C57D 8D EF CB         STA         SCORE         C63A D0 F4         BNE         WLOOP           C580 AD F0 CB         LDA         SCORE+1         C63C EE 4B CC         INC         WHICH           C583 E9 00         SBC         #0         C63F AD 4B CC         LDA         WHICH           C585 8D F0 CB         STA         SCORE+1         C642 C9 04         CMP         #4           C588 BO 4C C         LDA         GAME         C644 D0 05         BNE         RX           C588 F0 06         BEQ         PRSCORE         C646 A9 00         LDA         #0           C580 0E EF CB         ASL         SCORE         C648 BD 4B CC         STA         WHICH           C590 2E F0 CB         ROL         SCORE+1         C64B AA         RX         TAX           C593 A2 18         PRSCORE         LDX         #24         C64C BD 5D C6         LDA         VPOS,X           C595 A0 00         LDY         #0         C64F 8D 12 D0         STA         \$D012           C597 18         CLC         C652 A9 01         REXIT         LDA         #1           C598 20 F0 FF <t< td=""><td>C577 AD EF CB</td><td></td><td>LDA</td><td>SCORE</td><td>C6</td><td>37 E8</td><td></td><td>INX</td><td></td></t<>	C577 AD EF CB		LDA	SCORE	C6	37 E8		INX	
C570 8D EF CB	C57A ED F2 CB		SBC	TIMER+1	C6:	38 EO 05		CPX	#5
C580 AD FO CB	C57D 8D EF CB		STA	SCORE	C6:	3A D0 F4		BNE	WLOOP
C585 8D FO CB	C580 AD F0 CB		LDA	SCORE+1	C6	BC EE 4B CC		INC	WHICH
C588 AD 4C CC LDA GAME C644 D0 05 BNE RX C588 F0 06 BEQ PRSCORE C646 A9 00 LDA #0 C580 0E EF CB ASL SCORE C648 8D 4B CC STA WHICH C590 2E F0 CB ROL SCORE+1 C648 8D 4B CC STA WHICH C593 A2 18 PRSCORE LDX #24 C64C BD 5D C6 LDA VPOS,X C593 A2 18 PRSCORE LDX #24 C64C BD 5D C6 LDA VPOS,X C595 A0 00 LDY #0 C64F 8D 12 D0 STA \$D012 C597 18 CLC C652 A9 01 REXIT LDA #1 C598 A9 EC LDA # <scorword #="" #<scorword="" 68="" a0="" a9="" c5="" c590="" c599="" c657="" ec="" lda="" ldy="" pla="">SCORWORD C656 AB TAY C595 C595 C0 1E AB JSR STROUT C659 68 PLA C556 AD F0 CB LDX SCORE+1 C658 AB TAY C557 C595 C0 BD LDX SCORE+1 C656 68 PLA C558 A9 GC CB LDX SCORE+1 C656 68 PLA C558 A9 GC CB LDX SCORE+1 C656 68 PLA C558 A9 GC CB LDX SCORE+1 C656 68 PLA C558 A9 GC CB LDX SCORE+1 C656 68 PLA C558 A9 GC CB LDX SCORE+1 C656 68 PLA C558 A9 GC CB CB LDX SCORE+1 C656 68 PLA C558 A9 GC CB CB LDA SCORE+1 C656 AA TAX C558 A9 GC CB CB LDA SCORE+1 C656 AB PLA C558 A9 30 LDA #*0" C650 31 61 92 VPOS BYT 49,97,146,194 C550 C50 C50 C55 C50 LDY SSR \$FFD2 C651 00 05 00 LAST BYT 0.5.10.15</scorword>	C583 E9 UU		SBC	#U CCODE_1_1	CE	3F AD 4B CC		CMP	##
C58B F0 06 BEQ PRSCORE C646 A9 00 LDA #0  C58B F0 06 BEQ PRSCORE C648 BD 4B CC STA WHICH  C590 2E F0 CB ROL SCORE+1 C648 AD 4B CC STA WHICH  C590 2E F0 CB ROL SCORE+1 C648 AD 4B CC STA WHICH  C593 A2 18 PRSCORE LDX #24 C64C BD 5D C6 LDA VPOS,X  C595 A0 00 LDY #0 C64F 8D 12 D0 STA \$D012  C597 18 CLC C652 A9 01 REXIT LDA #1  C598 20 F0 FF JSR \$FFF0 C654 8D 19 D0 STA \$D019  C598 A9 EC LDA # <scorword #="" 68="" a0="" c5="" c590="" c657="" ldy="" pla="">SCORWORD C657 68 PLA  C595 20 1E AB JSR STROUT C659 A8 TAY  C595 20 1E AB JSR STROUT C659 68 PLA  C5A2 AE EF CB LDX SCORE C65A AA TAX  C5A5 AD F0 CB LDA SCORE+1 C65B 68  C5A6 AD F0 CB LDA SCORE+1  C5A8 A9 30 LDA #*0° C65D 31 61 92 VPOS BYT 49,97,146,194  C5AD 20 D2 FF JSR \$FFD2 C651 00 05 0A LAST BYT 0.5.10.15</scorword>	C588 AD 4C CC		IDA	GAME	C6	42 09 04 44 DO 05		RNF	RX
C58D 0E EF CB         ASL C590 2E F0 CB         ASL ROL ROL ROL ROL ROL ROL ROL ROL ROL RO	C58B F0 06		BEQ	PRSCORE	C6	46 A9 00		LDA	#0
C590 2E F0 CB	C58D OE EF CB		ASL	SCORE	C6	48 8D 4B CC		STA	WHICH
C593 A2 18 PRSCORE LDX #24 C64C BD 5D C6 LDA VPUS.X C595 A0 00 LDY #0 C64F 8D 12 D0 STA \$D012 C597 18 CLC C652 A9 01 REXIT LDA #1 C598 20 F0 FF JSR \$FFF0 C654 8D 19 D0 STA \$D019 C598 A9 EC LDA # <scorword #="" 68="" a0="" c5="" c59d="" c65f="" ldy="" pla="">SCORWORD C65F 68 PLA C59D A0 C5 LDY #&gt;SCORWORD C658 A8 TAY C59F 20 1E AB JSR STROUT C659 68 PLA C5A5 AD F0 CB LDX SCORE C65A AA TAX C5A5 AD F0 CB LDA SCORE C65A AA TAX C5A6 AD F0 CB LDA SCORE C65A AA TAX C5A6 AD G0 CB LDA SCORE T65C A0 RTI C5A8 A9 30 LDA #*0° C65D 31 61 92 VPOS BYT 49,97,146,194 C5A0 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST BYT 0.5.10.15</scorword>	C590 2E F0 CB		ROL	SCORE+1	C6	4B AA	RX	TAX	
C595 A0 00	C593 A2 18	PRSCORE	LDX	#24	C6-	4C BD 5D C6		LDA	VPOS,X
C598 A9 EC LDA # <scorword #="" #<scorword="" \$d019="" 19="" 68="" 8d="" a0="" a9="" c5="" c59b="" c59d="" c654="" c657="" d0="" ec="" lda="" ldy="" pla="" sta="">SCORWORD C658 A8 TAY  C59F 20 1E AB JSR STROUT C659 68 PLA  C542 AE EF CB LDX SCORE C654 AA TAX  C5A5 AD F0 CB LDA SCORE +1 C659 68 PLA  C5A6 20 CD BD JSR \$BDCD C65C 40 RTI  C5AB A9 30 LDA #*0* C65D 31 61 92 VPOS BYT 49,97,146,194  C5AD 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST BYT 0.5.10.15</scorword>	C595 AU UU		CLC	#U	Ce	4F 8D 12 DU 52 AQ 01	REYIT	5 IA	\$DU1Z #1
C59B A9 EC LDA #-SCORWORD C657 68 PLA C59D A0 C5 LDY #-SCORWORD C658 A8 TAY C59F 20 1E AB JSR STROUT C659 68 PLA C542 AE EF CB LDX SCORE C65A AA TAX C5A5 AD F0 CB LDA SCORE+1 C65B 68 PLA C5A6 20 CD BD JSR \$BDCD C65C 40 C5A6 A9 30 LDA #*0" C65D 31 61 92 VPOS BYT 49,97,146,194 C5AD 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST BYT 0.5.10.15	C598 20 F0 FF		JSR	\$FFF0	CA	54 8D 19 DO	ILAII	STA	\$D019
C59D A0 C5 LDY #>SCORWORD C658 A8 TAY C59F 20 1E AB JSR STROUT C659 68 PLA C5A2 AE EF CB LDX SCORE C65A AA TAX C5A5 AD F0 CB LDA SCORE+1 C65B 68 PLA C5A6 20 CD BD JSR \$BDCD C65C 40 RTI C5AB A9 30 LDA #**O** C65D 31 61 92 VPOS .BYT 49,97,146,194 C5AD 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST .BYT 0.5.10.15	C59B A9 EC		LDA	# <scorword< td=""><td>C6</td><td>57 68</td><td></td><td>PLA</td><td></td></scorword<>	C6	57 68		PLA	
C59F 20 1E AB JSR STROUT C659 68 PLA C5A2 AE EF CB LDX SCORE C65A AA TAX C5A5 AD F0 CB LDA SCORE+1 C65B 68 PLA C5A8 20 CD BD JSR \$BDCD C65C 40 RTI C5A8 A9 30 LDA #*0° C65D 31 61 92 VPOS BYT 49,97,146,194 C5AD 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST BYT 0.5.10.15	C59D A0 C5		LDY	#>SCORWORD	C6	58 A8		TAY	
C5A2 AE EF UB LDX SCURE C65A AA IAX C5A5 AD F0 CB LDA SCORE+1 C65B 68 PLA C5A8 20 CD BD JSR \$BDCD C65C 40 RTI C5A8 A9 30 LDA #*0" C65D 31 61 92 VPOS BYT 49,97,146,194 C5AD 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST BYT 0.5.10.15	C59F 20 1E AB		JSR	STROUT	C6	59 68		PLA	
C5A8 20 CD BD JSR \$BDCD C65C 40 RTI  C5A8 A9 30 LDA #*0" C65D 31 61 92 VPOS .BYT 49,97,146,194  C5AD 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST .BYT 0.5.10.15	C5A2 AE EF CB		LDX	SCORE 1 4	C6	DA AA		IAX Di A	
C5AB A9 30 LDA #"0" C65D 31 61 92 VPOS .BYT 49.97,146,194 C5AD 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST .BYT 0.5.10.15	CSAS AD FU UB		LUA JSR	SRUCE TO	00 90	5C 40		RTI	
C5AD 20 D2 FF JSR \$FFD2 C661 00 05 0A LAST BYT 0.5.10.15	C5AB A9 30		LDA	#"0"	C6	5D 31 61 92	VPOS	.BYT	49,97,146,194
	C5AD 20 D2 FF		JSR	\$FFD2	C6	61 00 05 0A	LAST	.BYT	0,5,10,15

C665 E0 E1 E2	WHAT	.BYT	\$E0,\$E1,\$E2,\$E3,\$E 4	C6F1 91 FD C6F3 C8		sta Iny	(OUTPTR),Y
C66A E4 E3 E1		.BYT	\$E4,\$E3,\$E1,\$E2,\$E	C6F4 CE 48 CC		DEC	TEMP
C66F E1 E3 E2		.BYT	4 \$E1,\$E3,\$E2,\$E4,\$E	C6F7 AD 48 CC C6FA D0 E4		LDA BNE	TEMP BOTBOX
			0	C6EC 20 08 C7		JSR	L40
C674 E1 E3 E1		.BYT	\$E1,\$E3,\$E1,\$E0,\$E	C6FF CE 49 CC		DEC	TEMP+1
			5	C702 AD 49 CC		LDA BNE	TEMP + 1 BOXROW
C679 A2 00	BOXES	LDX	#0	C6FF CE 49 CC C702 AD 49 CC C705 DO 90 C707 60		RTS	DUANUW
C67B A9 07		I DA	#0 #7 \$D800,X \$D900,X \$DA00,X \$DB00,X	C/US AD FD	L40	LDA	OUTPTR
C67D 9D 00 D8	CFILL	STA	\$D800,X	C70A 18		CLC	
C680 9D 00 D9 C683 9D 00 DA		SIA	\$D900,X	C70B 69 28 C70D 85 FD		ADC STA	#40 OUTPTR
C686 9D 00 DB	CFILL	STA	\$D800.X	C70F A5 FE		LDA	OUTPTR+1
C689 E8						ADC	#0
C68A D0 F1 C68C A9 00		BNE LDA	CFILL	C713 85 FE C715 60		STA	OUTPTR+1
C68E 85 FD		STA	CFILL #0 OUTPTR #4 TEMP+1	C716 0A 0E 09	COLTAR	rts .byt	10,14,9,9,1,1,7,9
C690 A9 04		LDA	#4	C71E E0 E1 E4	PTRS	BYT	\$E0,\$E1,\$E4,\$E4,\$E
C692 8D 49 CC		STA	TEMP+1 OUTPTR+1	0700 00 00 00		D) CT	8,\$E8,\$EC,\$E4
C695 85 FE C697 A9 05	BOXROW	sta Lda	UUIPIK+1 #5	C726 00 00 00	HM0VX	.BYT	0,0,0,0,255,255,255, 0,0,0,0
C699 8D 48 CC	DOMINIT	STA	TEMP	C731 00 00 00	LMOVX	.BYT	0,0,0,0,255,255,255,
C69C A0 00		LDY	#0				0,1,1,1
C69E A9 70	TOPBOX	LDA	#112 (OUTDTD) V	C73C 00 FF 01	MOVY	.BYT	0,255,1,0,0,255,1,0,
C6A0 91 FD C6A2 C8		sta Iny	(OUTPTR),Y #6 #64 (OUTPTR),Y				0,255,1
C6A3 A2 06		ĽDX	#6	C747 00 00 00	SHAPES	.BYT	0,0,0,0,0,0,0
C6A5 A9 40		LDA	#64	C74F 00 00 80		.BYT	0,0,128,0,0,128,0,2
C6A7 91 FD C6A9 C8	BAR1	STA INY	(OUTPTR),Y	C757 AU 00 00		.BYT	160,0,0,128,0,0,128, 0
C6AA CA		DEX		C75F 00 00 00		.BYT	0,0,0,0,0,0,0
C6AB D0 FA		BNE	BAR1 #110	C767 00 00 00		.BYT	0,0,0,0,0,0,0
C6AD A9 6E		LDA	#110	C76F 00 00 00		.BYT	0,0,0,0,0,0,0
C6AF 91 FD C6B1 C8		sta Iny	BAR1 #110 (OUTPTR),Y	C777 00 00 00 C77F 00 00 00		.BYT .BYT	0,0,0,0,0,0,0,0 0,0,0,0,0,0,0,147
C6B2 CE 48 CC		DEC	TEMP	C787 AA AA 80		.BYT	170,170,128,128,0,1
C6B5 AD 48 CC		LDA	TEMP				28,128,0
C6B8 D0 E4 C6BA A2 04		BNE LDX	TOPBOX #4	C78F 80 80 00		.BYT	128,128,0,128,128,0
C6BC 20 08 C7	SIDES	JSR	L40	C797 00 80 80		.BYT	,128,128 0,128,128,0,128,128
C6BF A0 00		LUT	#0				,0,128
C6C1 18	OIDE	CLC	<b>#00</b>	C79F 80 00 80		.BYT	128,0,128,128,0,128
C6C2 A9 5D C6C4 91 FD	SIDE	LDA STA	#93 (OUTPTR),Y	C7A7 80 AA AA		.BYT	,128,0 128,170,170,128,0,0
C6C6 98		TYA		0/// 00 /4(/4(		.011	,0,0
C6C7 69 07		ADC	#7	C7AF 00 00 00		.BYT	0,0,0,0,0,0,0,0
C6C9 A8 C6CA A9 5D		tay Lda	#93 (OUTPTR),Y	C7B7 00 00 00		.BYT .BYT	0,0,0,0,0,0,0,0
C6CC 91 FD		STA	(OUTPTR).Y	C7C7 00 00 00		.BYT	0,0,0,0,0,0,0,147 0,0,0,0,0,0,0,0
C6CE C8 C6CF C0 28 C6D1 90 EF		INY	(00)	C7BF 00 00 00 C7CF 00 00 00 C7CF 00 00 00 C7DF 08 00 00		.BYT	0,0,0,0,0,0,0
C6CF C0 28		CPY	#40 SIDE	C7D7 08 00 00		.BYT	0,8,0,0,8,0,0,8,0
C6D3 CA		BCC DEX	SIDE	C/DF UU AA 8U		.BYT .BYT	0,170,128,0,8,0,0,8 0,0,8,0,0,0,0,0
C6D4 D0 E6		BNE	SIDES	C7E7 00 00 08 C7EF 00 00 00		.BYT	0,0,0,0,0,0,0,0
C6D6 20 08 C7		JSR	SIDES L40 #5 TEMP #0	C7F7 00 00 00		.BYT	0,0,0,0,0,0,0
C6D9 A9 05		LDA	#5	C7FF 00 00 00		.BYT	0,0,0,0,0,0,0,48
C6DB 8D 48 CC C6DE AO 00		sta Ldy	#0	C807 2A AA AA		.BYT	042,170,170,32,0,2, 32,0
C6E0 A9 6D	BOTBOX	LDA		C80F 02 20 00		.BYT	003 33 0 3 33 0 3 33
C6E2 91 FD		STA	#109 (OUTPTR),Y	C817 00 02 20		.BYT	0,2,32,0,2,32,0,2
C6E4 C8 C6E5 A2 06		iny LDX	#6	C817 00 02 20 C81F 20 00 02 C827 02 20 00		.BYT .BYT	032,0,2,32,0,2,32,0 002,32,0,2,32,0,2,32
C6E7 A9 40		LDA	#64	C82F 00 02 20		.BYT	0,2,32,0,2,32,0,2
C6E9 91 FD	BAR2	STA	(OUTPTR),Y	C837 2A AA AA		BYT	042,170,170,0,0,0,0,
C6EB C8		INY		0000 00 00 00		DVT	0
C6EC CA C6ED D0 FA		DEX BNE	BAR2	C83F 00 00 00 C847 00 00 00		.BYT .BYT	0,0,0,0,0,0,0,48 0,0,0,0,0,0,0,0
C6EF A9 7D		LDA	#125	C84F 00 00 00		BYT	0,0,0,0,0,0,0,0

C857 00 00 00	.BYT	0,0,0,0,0,0,0,0	CA17 00 00 00	.BYT	0,0,0,0,0,0,0,0
C85F 00 00 00	.BYT	0,0,0,80,170,0,118,1	CA1F 00 00 00	.BYT	0,0,0,0,0,4,64,69
0031 00 00 00	.011	70	CA27 1D 65 65	.BYT	029,101,101,84,22,8
C867 AO 56 AE	.BYT		0A27 1D 03 03	ווט.	6,64,1
C607 AU 30 AE	.011	160,86,174,168,22,2	CASE 44 00 00	DVT	
		34,186,6	CA2F 44 00 00	.BYT	0,0,0,0,0,0,0,0
C86F AE AA 0B	.BYT	174,170,11,170,233,	CA37 00 00 00	.BYT	0,0,0,0,0,0,0,0
		10,170,149	CA3F 00 00 00	.BYT	0,0,0,0,0,0,0,0
C877 05 40 14	.BYT	005,64,20,1,0,80,0,6	CA47 00 00 00	.BYT	0,0,0,0,0,0,0
		4	CA4F 00 00 00	.BYT	0,0,0,0,0,0,0,20
C87F 40 00 00	.BYT	064,0,0,0,0,0,0,233	CA57 00 00 5D	.BYT	0,0,93,0,0,37,0,0
C887 00 00 00	.BYT	0,0,0,0,0,0,0	CA5F 05 00 00	.BYT	005,0,0,5,64,0,5,68
C88F 00 00 00	.BYT	0,0,0,0,0,0,0,0	CA67 40 01 55	.BYT	064,1,85,80,2,86,80,
C897 00 00 00	.BYT	0,0,0,0,0,0,0,0	5.67 10 51 55		5
C89F 00 00 00	BYT	0,0,0,0,170,0,82,170	CA6F 65 54 05	.BYT	101,84,5,85,149,1,8
C8A7 AO 76 AE	BYT	160,118,174,168,86,	ONO! 03 34 03	.511	5.80
COAT AU TO AL	.011	234,186,22	CA77 01 40 50	.BYT	001,64,80,0,80,20,0,
COAF AF AA OD	DVT	174 170 11 170 222	CATT 01 40 30	.011	001,04,00,0,00,20,0,
C8AF AE AA OB	.BYT	174,170,11,170,233,	0475 00 00 00	DVT	•
		10,170,148	CA7F 00 00 00	.BYT	0,0,0,0,0,0,0,255
C8B7 01 40 14	.BYT	001,64,20,0,80,5,0,1	CA87 00 00 00	.BYT	0,0,0,0,0,0,0,0
		6	CA8F 00 00 00	.BYT	0,0,0,0,20,0,0,93
C8BF 00 00 00	.BYT	0,0,0,0,0,0,0,233	CA97 00 00 25	.BYT	0,0,37,0,0,5,0,0
C8C7 00 00 00	.BYT	0,0,0,0,0,0,0,0	CA9F 05 00 00	.BYT	005,0,0,5,64,0,1,68
C8CF 00 00 00	.BYT	0,0,0,0,0,0,0,0	CAA7 40 01 55	.BYT	064,1,85,80,2,86,84,
C8D7 00 00 00	.BYT	0,0,0,0,0,0,0,0	0741 40 01 33	.511	5
			CAAC CE EE OE	DVT	101,85,5,85,144,1,8
C8DF 00 00 00	.BYT	0,0,0,0,170,5,10,170	CAAF 65 55 05	.BYT	
C8E7 9D 2A BA	.BYT	157,42,186,149,174,		D. 177	5,80
		171,148,170	CAB7 01 01 40	.BYT	001,1,64,1,1,64,0,64
C8EF BA 90 6B	.BYT	186,144,107,170,22	CABF 50 00 00	.BYT	080,0,0,0,0,0,0,255
		4,86,170,160	CAC7 00 00 00	.BYT	0,0,0,0,0,0,0
C8F7 14 01 50	.BYT	020,1,80,5,0,64,1,1	CACF 00 00 00	.BYT	0,0,0,0,0,0,0,0
C8FF 00 00 00	.BYT	0,0,0,0,0,0,0,233	CAD7 00 14 00	.BYT	0,20,0,0,117,0,0,88
C907 00 00 00			CADF 00 14 00 CADF 00 00 50	.BYT	0,0,80,0,1,80,1,17
	.BYT	0,0,0,0,0,0,0			
C90F 00 00 00	.BYT	0,0,0,0,0,0,0,0	CAE7 50 05 55	.BYT	080,5,85,64,5,149,1
C917 00 00 00	.BYT	0,0,0,0,0,0,0,0			28,21
C91F 00 00 00	.BYT	0,0,0,0,170,0,10,170	CAEF 59 50 56	.BYT	089,80,86,85,80,5,8
C927 85 2A BA	.BYT	133,42,186,157,174,			5,64
		171,149,170	CAF7 05 01 40	.BYT	005,1,64,20,5,0,0,0
C92F BA 94 6B	.BYT	186,148,107,170,22	CAFF 00 00 00	.BYT	0,0,0,0,0,0,0,0
0021 BA 34 0B	.511	4.22.170.160	CB07 00 00 00	.BYT	0,0,0,0,0,0,0,0
0027 14 01 40	DVT				
C937 14 01 40	.BYT	020,1,64,80,5,0,0,4	CB0F 00 00 00	.BYT	0,0,0,0,0,0,20,0
C93F 00 00 00	.BYT	0,0,0,0,0,0,0,22	CB17 00 75 00	BYT	0,117,0,0,88,0,0,80
C947 00 00 00	.BYT	0,0,0,0,0,0,0,0	CB1F 00 00 50	.BYT	0,0,80,0,1,80,1,17
C94F 00 00 00	.BYT	0,0,0,0,0,0,0,16	CB27 40 05 55	.BYT	064,5,85,64,21,149,
C957 00 00 74	.BYT	0,0,116,0,0,20,0,0			128,85
C95F 05 00 00	.BYT	005,0,0,1,0,0,1,68	CB2F 59 50 06	.BYT	089,80,6,85,80,5,85,
C967 40 01 95	.BYT	064,1,149,144,1,89,			64
0001 40 01 00	.577	80,0	CB37 01 40 40	.BYT	001,64,64,1,64,64,5,
C96F 44 64 00	.BYT	068,100,0,0,20,0,0,5	0537 01 40 40	.011	1
0077 00 00 00			CD3E 00 00 00	DVT	•
C977 00 00 00	.BYT	0,0,0,0,0,0,0	CB3F 00 00 00	.BYT	0,0,0,0,0,0,0,0
C97F 00 00 00	.BYT	0,0,0,0,0,0,0	CB47 00 00 00	.BYT	0,0,0,0,0,0,0
C987 00 00 00	.BYT	0,0,0,0,0,0,0	CB4F 00 00 00	.BYT	0,0,0,0,0,0,0,0
C98F 00 00 00	.BYT	0,0,0,0,0,0,0	CB57 00 00 00	.BYT	0,0,0,0,0,0,0
C997 00 00 00	.BYT	0,0,0,0,0,0,0	CB5F 00 00 00	.BYT	0,0,0,0,0,0,0
C99F 00 00 00	.BYT	0,0,0,16,0,0,116,145	CB67 00 00 00	.BYT	0,0,0,0,0,0,0,64
C9A7 01 15 56		001,21,86,85,9,101,	CB6F 00 00 50	.BYT	0,0,80,0,0,81,16,0
03A7 01 13 30					
	.BYT				00 0 4 0 00 100 0
0045 44 40 00		148,0	CB77 55 54 00	.BYT	085,84,0,89,100,0,8
C9AF 11 40 00	.BYT	148,0 017,64,0,0,0,0,0,0	CB77 55 54 00	.BYT	5,85
C9B7 00 00 00	.BYT .BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0			5,85 0,86,89,0,85,84,0,12
C9B7 00 00 00 C9BF 00 00 00	.BYT .BYT .BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,0,0,0,0,	CB77 55 54 00 CB7F 00 56 59	.BYT .BYT	5,85 0,86,89,0,85,84,0,12 5
C9B7 00 00 00	.BYT .BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0	CB77 55 54 00	.BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,42
C9B7 00 00 00 C9BF 00 00 00	.BYT .BYT .BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,0,0,0,0,	CB77 55 54 00 CB7F 00 56 59 CB87 00 00 00	.BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,42
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9CF 00 00 00	.BYT .BYT .BYT .BYT .BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,0,0,0,0,	CB77 55 54 00 CB7F 00 56 59 CB87 00 00 00 CB8F A0 00 00	.BYT .BYT .BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,0,42 160,0,0,0,0,0,0,255
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9CF 00 00 00 C9D7 00 04 00	.BYT .BYT .BYT .BYT .BYT .BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,0,0,0,0,	CB77 55 54 00 CB7F 00 56 59 CB87 00 00 00	.BYT .BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,0,42 160,0,0,0,0,0,0,255 255,255,0,170,165,1
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9CF 00 00 00 C9D7 00 04 00 C9DF 00 00 50	.BYT .BYT .BYT .BYT .BYT .BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,0,0,0,0,	CB7F 00 56 59 CB8F 00 00 00 CB8F A0 00 00 CB9F FF FF 00	.BYT .BYT .BYT .BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,0,42 160,0,0,0,0,0,0,255 255,255,0,170,165,1 5,255,255
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9CF 00 00 00 C9D7 00 04 00	.BYT .BYT .BYT .BYT .BYT .BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0,0 0,4,0,0,29,0,29 0,0,80,0,64,1,17 128,5,149,64,9,89,6	CB77 55 54 00 CB7F 00 56 59 CB87 00 00 00 CB8F A0 00 00	.BYT .BYT .BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,0,42 160,0,0,0,0,0,255 255,255,0,170,165,1 5,255,255 0,0,80,42,129,64,1,1
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9C7 00 00 00 C9DF 00 00 50 C9DF 00 00 50 C9E7 80 05 95	.BYT .BYT .BYT .BYT .BYT .BYT .BYT	148.0 017.64,0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,4,0,0,29,0,0,20 0,0,0,0,0,64,1,17 128.5,149,64,9,89,6 4,21	CB77 55 54 00  CB7F 00 56 59  CB87 00 00 00  CB8F A0 00 00  CB97 FF FF 00  CB9F 00 00 50	.BYT .BYT .BYT .BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,0,42 160,0,0,0,0,0,255 255,255,0,170,165,1 5,255,255 0,0,80,42,129,64,1,1 7
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9CF 00 00 00 C9D7 00 04 00 C9DF 00 00 50 C9E7 80 05 95 C9EF 11 00 24	BYT BYT BYT BYT BYT BYT BYT BYT BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,0,0,0,0,	CB7F 00 56 59 CB8F 00 00 00 CB8F A0 00 00 CB9F FF FF 00	.BYT .BYT .BYT .BYT .BYT	5,85 0,86,89,0.85,84,0,12 5 0,0,0,0,0,0,0,42 160,0,0,0,0,0,255 255,255,0,170,165,1 5,255,255 0,0,80,42,129,64,1,1 7 080,5,90,160,240,63
C3B7 00 00 00 C3BF 00 00 00 C3C7 00 00 00 C3C7 00 00 00 C3DF 00 00 00 C3DF 00 00 50 C3EF 11 00 24 C3F7 00 00 00	.BYT .BYT .BYT .BYT .BYT .BYT .BYT	148.0 017.64,0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,4,0,0,29,0,0,20 0,0,0,0,0,64,1,17 128.5,149,64,9,89,6 4,21	CB77 55 54 00  CB7F 00 56 59  CB87 00 00 00  CB8F A0 00 00  CB97 FF FF 00  CB9F 00 00 50	.BYT .BYT .BYT .BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,0,42 160,0,0,0,0,0,255 255,255,0,170,165,1 5,255,255 0,0,80,42,129,64,1,1 7
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9CF 00 00 00 C9D7 00 04 00 C9DF 00 00 50 C9E7 80 05 95 C9EF 11 00 24	BYT BYT BYT BYT BYT BYT BYT BYT BYT	148,0 017,64,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,0,0,0,0,	CB77 55 54 00  CB7F 00 56 59  CB87 00 00 00  CB8F A0 00 00  CB97 FF FF 00  CB9F 00 00 50	.BYT .BYT .BYT .BYT .BYT	5,85 0,86,89,0.85,84,0,12 5 0,0,0,0,0,0,0,42 160,0,0,0,0,0,255 255,255,0,170,165,1 5,255,255 0,0,80,42,129,64,1,1 7 080,5,90,160,240,63
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9C7 00 00 00 C9D7 00 04 00 C9DF 00 00 50 C9E7 80 05 95 C9EF 11 00 24 C9F7 00 00 00 C9FF 00 00 00	.BYT .BYT .BYT .BYT .BYT .BYT .BYT .BYT	148.0 017.64,0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,4,0,0,29,0,20 0,80,0,0,64,1,17 128.5,149,64,9,89,6 4,21 017,0,36,0,0,80,0,0 0,0,0,0,0,0,0	CB7F 55 54 00 CB7F 00 56 59 CB87 00 00 00 CB8F A0 00 00 CB97 FF FF 00 CB9F 00 00 50 CBA7 50 05 5A	.BYT .BYT .BYT .BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,0,25 255,255,0,170,165,1 5,255,255 0,0,80,42,129,64,1,1 7 080,5,90,160,240,63 255,21 089,80,86,170,170,5
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9C7 00 04 00 C9DF 00 05 50 C9E7 80 05 95  C9EF 11 00 24 C9F7 00 00 00 C9F7 00 00 00 CAO7 00 00 00	.BYT .BYT .BYT .BYT .BYT .BYT .BYT .BYT	148.0 017.64,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,0,0,0,0,	CB77 55 54 00  CB7F 00 56 59  CB87 00 00 00  CB8F A0 00 00  CB97 FF FF 00  CB9F 00 00 50  CBA7 50 05 5A  CBAF 59 50 56	.BYT .BYT .BYT .BYT .BYT .BYT	5,85 0,86,89,0.85,84,0,12 5 0,0,0,0,0,0,0,0,25 255,255,0,170,165,1 5,255,255 0,0,80,42,129,64,1,1 7 080,5,90,160,240,63 255,21 089,80,86,170,170,5 98,86,47
C9B7 00 00 00 C9BF 00 00 00 C9C7 00 00 00 C9C7 00 00 00 C9D7 00 04 00 C9DF 00 00 50 C9E7 80 05 95 C9EF 11 00 24 C9F7 00 00 00 C9FF 00 00 00	.BYT .BYT .BYT .BYT .BYT .BYT .BYT .BYT	148.0 017.64,0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,4,0,0,29,0,20 0,80,0,0,64,1,17 128.5,149,64,9,89,6 4,21 017,0,36,0,0,80,0,0 0,0,0,0,0,0,0	CB7F 55 54 00 CB7F 00 56 59 CB87 00 00 00 CB8F A0 00 00 CB97 FF FF 00 CB9F 00 00 50 CBA7 50 05 5A	.BYT .BYT .BYT .BYT .BYT	5,85 0,86,89,0,85,84,0,12 5 0,0,0,0,0,0,0,0,25 255,255,0,170,165,1 5,255,255 0,0,80,42,129,64,1,1 7 080,5,90,160,240,63 255,21 089,80,86,170,170,5

CC4B MASK *= *+1 CC4C WHICH *= *+1		_	*+1
CC4D GAME *= *+1			

# Campaign Manager Source Code

Source code by Todd Heimarck

0004		2040	0040 05 54 00	DVTE	47.005.05.407.0.0.4
0801		2049	08A9 2F E1 23	.BYIE	
; bkcm (file 1)	DEMOO! -	\$43 \$82 \$F7 \$F9 \$FB \$FD \$37C0 \$9800 \$3600 \$8000 \$0000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$	08B1 00 60 00 08B9 7E 00 00	.BYTE .BYTE	0,96,0,7,176,0,0,0 126,0,0,211,58,0,11
0801	REPCOI =	\$43 \$82	08C1 02 00 00 08C9 00 A0 00 08D1 00 01 20	RVTE	2,0
0801	Z1 =	\$F7	08C9 00 A0 00	BYTE	0.160 0.0 0.0 0.0
0801	Z2 =	\$F9	08D1 00 01 20	.BYTE	0.1.32.0.0.0.0.0
0801	Z3 =	\$FB	;		-1-1-1-1-1-1-
; zero-page locatio	ns		; ** newchrset		
0801		\$FD	08D9 20 E3 08 NEW	CHRSET JSR	NEWCHR1
0801	MCCDIACE =	\$37UU eggno	08DC 20 29 09	JSK	NEWCHR2 NEWCHR3
0801	MAPTARIF =	\$3600	00DF 20 4E 09	JON	NEWCHINS
0801	REGUMEN =	\$8000	:	1110	
0801	RAND =	\$D41B	; ** newchr1 relocat	e chrs 0-64	
; translates to syst	2061		08E3 AD 0E DC NEW	/CHR1 LDA	\$DC0E
0801 0B 08 0A	.BYT	E 11,8,10,0,158,50,48	08E6 29 FE	AND	#\$FE
0808 36 31 00	.BY I	54,49,0,0,0	OBER SD OF DC	SIA	\$DC0E
DROD 20 AF OC	ISB	PRFI IM	08ED AS UT	LUA AND	\$01 #\$FB
0810 20 F1 OC	JSR	PICKCAND	08EF 85 01	STA	\$01
0813 20 7A 11	JSR	CONTROL	08F1 A9 D1	LDA	#\$D1
0816 20 6C 1F	JSR	ELECTIONDAY	08F3 85 FC	STA	\$FC
; crtbl crunched	table (for map)		08F5 A9 39	LDA	#\$39
0819 45 FA CC	CRIBL .BYI	69,250,204,204,204,	08F7 85 FE	STA	\$FE
0821 00 00 00	DVT	204,220,192 - 0.0.0.5.220.255.167	00F9 AU UU	LUY	#\$00 \$FB
0021 00 00 00	.011	255	08FD 84 FD	STY	\$FD
0829 FF FF FF	.BYT	255,255,255,178,30,	08FF B1 FB NEW	/1 LDA	(\$FB),Y
		128,0,0	0901 91 FD	STA	(\$FD),Y
0831 DB 5F FA	.BYT	219,95,250,31,255,2	0903 88	DEY	
0020 05 20 00	DVT	55,255,255	0904 D0 F9	BNE	NEW1
0039 OF 2D 00	.BTI	= 143,43,0,4,243,37,2 55,255	0906 C6 FC	DEC	\$FC \$FE
0841 1F FF FF	RYT	31 255 255 255 241	090A A9 37	LDA	#\$37
	.511	197.250.76	090C C5 FE	CMP	\$FE
0849 FF F8 5F	.BYT	255,248,95,95,255,2	090E D0 EF	BNE	NEW1
		55,255,255	0910 A5 01	LDA	\$01
0851 8F BF AF	.BYT	143,191,175,245,25	0912 09 04	ORA	#\$04
0950 EE EE EE	DVT	5,115,37,245	0914 85 01 0016 AD 05 DC	SIA	\$01 \$DC0E
0000 11 11 11	.011	4 254 250 247	0910 AD 02 DC	ORA	#1
0861 23 4C 20	.BYT	35.76.32.15.247.255	091B 8D 0E DC	STA	\$DC0E
		,255,255	091E AD 18 D0	LDA	\$D018
0869 FF FA FE	.BYT	255,250,254,162,25	0921 29 F0	AND	#\$F0
0074 EF 4E FF	DVT	0,47,18,0	0923 09 0E	ORA	#\$0E
08/1 3F 15 FF	.BY I	55,21,255,255,227,2	0925 8D 18 D0	SIA	\$D018
0879 CC 3C CC	RYT	50,52,232 204 60 204 0 0 127		nio	
0070 00 00 00	.511	175,255	** newchr2 punctu	ation	
0881 FF FF FA	.BYT	255,255,250,255,20	0929 A9 39 NEW	CHR2 LDA	#\$39
		4,60,207,176	092B 85 FC	STA	\$FC
U889 UU 01 F2	.BYT	: U,1,242,255,255,191	092D 85 FE	STA	\$FE
0891 AF FA F7	DVT	,255,239 E 175,250,247,224,0,0	U921 A9 5U	LDA STA	#\$50 \$FB
UUSI AF FA FI	.DT1	0.1	033 A9 D0	LDA	มาย #\$D0
0899 33 7F FF	.BYT	51,127,255,255,242.	0935 85 FD	STA	\$FD
		255.255.240	0937 20 44 09	JSR	NEW2
08A1 00 00 4F	.BYT	0,0,79,160,128,0,11			
		9,255			

093A A9 18	LDA	#\$18	09AD 91 FB		STA	(\$FB).Y
093A A9 18 093C 85 FB 093E A9 D8 0940 85 FD 0942 C6 FE 0944 A0 27 NEW2 0946 B1 FB NEW3 0948 91 FD 094A 88 094B 10 F9 094D 60	STA	\$FR	09AF 20 R5 09		JSR	UNC1
093E A9 D8	I DA	#6U8 &: D	OOR ER		INIX	01101
093E A9 D0	CTA	# PDU	00D2 D0 E0		BNE	CRI IN1
0940 85 FD	SIA	<b>ゆ</b> たし	09D3 D0 E0	LINC1	CNAD	4630
0942 C6 FE 0944 A0 27 NEW2	DEC	\$FE	0985 09 20	UNCT	CIVIE	#020
0944 A0 27 NEW2	LDY	#\$27	0987 DU 04		BINE	UNUZ
0946 B1 FB NEW3	LDA	(\$FB),Y	09B9 09 C0		UHA	#\$CU
0948 91 FD	STA	(\$FD),Y	09BB 91 FB		STA	(\$FB),Y
094A 88	DEY		09BD C8	UNC2	INY	
094B 10 F9	BPL	NEW3	09BE CO 19		CPY	#\$19
094D 60	RTS		09C0 F0 01		BEQ	UNC3
:			: main rts of unc1			
: ** newchr3 quarter squal 094E A9 FF NEWCHR3 0950 8D 03 38 0953 A9 F0 0955 8D 02 38 0958 A9 0F 095A 8D 01 38 095D A2 00 095F 8E 00 38 096D A2 00 095F 8E 00 38 0962 86 FB 0964 8A NEW6 0965 20 75 09 0968 8A 0966 E8	re graphics		09C2 60		RTS	
ONE NO SE NEWCHRS	I DA	#CEE	0903 49 00	LINC3	LDA	#0
03-F V3 11 MF4401110	STA	43803	0005 At 58	0.100	STA	(SFR) Y
0930 00 03 30	LDA	<b>πφΕ</b> υ	0000 31 10		TAV	(Φ. Β), τ
0933 A9 FU	CTA	ተቀርህ	0000 10		יכור	
0955 8D 02 38	SIA	\$30UZ	0000 10		LDA	110-1 A
0958 A9 UF	LUA	#\$UF	USUS AS IA		ADC	# Φ Ι Μ
095A 8D 01 38	SIA	\$3801	090B 00 FB		ADU	ΦFD
095D A2 00	LDX	#0	09CD 82 FB		SIA	DLR.
095F 8E 00 38	STX	\$3800	09CF 90 02		BCC	UNC4
0962 86 FB	STX	\$FB	09D1 E6 FC		INC	\$FC
0964 8A NEW6	TXA		09D3 60	UNC4	rts	
0965 20 75 09	JSR	NEW5	:			
0968 8A	TXA		: ** colortoal			
0060 20 72 00	ISB	NFW4	color registers			
0000 E8	INY	MEIT 1	0904	COLREG	=	\$D020
0000 E0 10	CDV	4610	0004 00 01 03	COLORS	RYTE	1213214
090D E0 10	DNE	MOTO ALCIAIC	0000 40 04	COLORIO	inv	#4
U90F DU F3	DIVE	INEAAO	0000 00 04 00	COLUMIOGE	LDA	COLODE V
0969 20 72 09 096C E8 096D E0 10 096F D0 F3 0971 60 0972 EA NEW4 0973 4A 0974 4A 0975 29 03 NEW5 0977 A8 0978 B9 00 38	HIS		0905 00 00 00	COLI	CTA	COLUNS, I
0972 EA NEW4	NOP		09DE 99 20 D0		SIA	COLREG, T
0973 4A	LSR		U9E1 88		DEY	001.4
0974 4A	LSR		09E2 10 F7		BPL	COL1
0975 29 03 NEW5	AND	#3	09E4 AD 11 D0		LDA	\$D011
0977 A8	TAY		09E7 09 40		ORA	#\$40
0978 B9 00 38	LDA	\$3800.Y	; enable extended	b/g color mod	е	
	LDV	***	00F0 0D 44 D0	. •	OTA	@D044
097R AO O3	LUT	#3	U9E9 8D 11 DU		SIA	ווטעפ
097B A0 03	STA	#3 (\$FR) Y	09E9 8D 11 DU		RTS	\$0011
097B A0 03 097D 91 FB NEW7	STA DEV	#3 (\$FB),Y	09EC 60		RTS	⊉D011
097B AO 03 097D 91 FB NEW7 097F 88	STA DEY	#3 (\$FB),Y	09EC 60		RTS	20011
097B AO 03 097D 91 FB NEW7 097F 88 0980 10 FB	STA DEY BPL	#3 (\$FB),Y NEW7	09E9 80 11 D0 09EC 60 ; ; ** makemap	MAKEMAD	RTS	CIBSCRCOI
097B AO 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB	STA DEY BPL INC	#\$18 \$FB #\$D8 \$FD \$FF #\$27 (\$FB),Y (\$FD),Y NEW3 #\$FF \$3803 #\$F0 \$3802 #\$0F \$3801 #0 \$78000 \$78000 \$78000 \$78000 \$78000 \$78000 \$78000 \$7800 \$78000 \$78000 \$78000 \$78000 \$78000 \$78000 \$78000 \$78000	09EC 60 : ; ** makemap 09ED 20 F7 09	MAKEMAP	STA RTS	CLRSCRCOL
097B AO 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB	STA DEY BPL INC INC	#3 (\$FB),Y NEW7 \$FB \$FB	09EC 60 : ; ** makemap 09ED 20 F7 09 09F0 20 6E 0A	MAKEMAP	JSR JSR	CLRSCRCOL CHRMAPPUT
097B AO 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB 0984 E6 FB 0986 E6 FB	STA DEY BPL INC INC	#3 (\$FB),Y NEW7 \$FB \$FB \$FB	09EC 60 :: ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 89 0A	MAKEMAP	JSR JSR JSR JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM
097B AO 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB 0984 E6 FB 0986 E6 FB	STA DEY BPL INC INC INC	#3 (\$FB),Y NEW7 \$FB \$FB \$FB \$FB	09EC 60 : : ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60	MAKEMAP	JSR JSR JSR JSR RTS	CLRSCRCOL CHRMAPPUT SETCOLMEM
097B AO 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB 0984 E6 FB 0986 E6 FB 0988 E6 FB	STA DEY BPL INC INC INC INC RTS	#3 (\$FB),Y NEW7 \$FB \$FB \$FB \$FB	09EC 60 : ; ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60	MAKEMAP	JSR JSR JSR JSR RTS	CLRSCRCOL CHRMAPPUT SETCOLMEM
097B A0 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB 0984 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB	STA DEY BPL INC INC INC INC INC RTS	#3 (\$FB),Y NEW7 \$FB \$FB \$FB \$FB	09EC 60 : :** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60 : :** cirscrcol c	MAKEMAP	JSR JSR JSR RTS	CLRSCRCOL CHRMAPPUT SETCOLMEM
0977 A8 0978 B9 00 38 0978 A0 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB 0984 E6 FB 0986 E6 FB 0988 E6 FB 0988 60 : ** uncrunchr set up tab	STA DEY BPL INC INC INC INC RTS	#3 (\$FB),Y NEW7 \$FB \$FB \$FB \$FB	09EC 60 : * makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60 : ** cirscrool c 09F7 A9 93	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR JSR RTS	CLRSCRCOL CHRMAPPUT SETCOLMEM
0978 A0 03 0970 91 FB NEW7 097F 98 0980 10 FB 0982 E6 FB 0984 E6 FB 0986 E6 FB 0986 E6 FB 0986 E6 FB 0986 E7 10 FB Wincrunchr set up tab 0988 A9 36 UNCRUNC	STA DEY BPL INC INC INC INC RTS Ie at \$3600 CHR LDA	#3 (\$FB),Y NEW7 \$FB \$FB \$FB \$FB \$FB	09EC 60  : * makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60  : * clrscrool c 09F7 A9 93 09F9 20 D2 FF	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR RTS I set cold LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM ors #\$93 \$FFD2
097B AO 03 097D 91 FB 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 AG 00 ; ** uncrunchr set up tab 098B A9 36 098B A9 36	STA DEY BPL INC INC INC INC RTS  le at \$3600 CHR LDA STA	#3 (\$FB),Y  NEW7 \$FB \$FB \$FB \$FB \$FB \$FFB  for map #\$36 \$FC	09EC 60 : ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60 : ** clrscrcol c 09F7 A9 93 09F9 20 D2 FF 09FC A0 03	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR JSR RTS I set cold LDA JSR LDY	CLRSCRCOL CHRMAPPUT SETCOLMEM OTS #\$93 \$FFD2 #3
097B A0 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 A0 36 UNCRUNC 098D A9 36 UNCRUNC 098F A9 00	STA DEY BPL INC INC INC INC RTS IR \$3600 CHR LDA STA LDA	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$for map #\$36 \$FC	09EC A0 03 09FC A0 03 09FG A0 03 09FG C0 C0 09F7 A9 93 09F9 C0 D2 FF 09FC A0 03 09F6 C0 09F7 A9 C0	MAKEMAP  clear screen and CLRSCRCOL	JSR JSR JSR JSR RTS I set cold LDA JSR LDY JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM OTS #\$93 \$FFD2 #3 CLSPACE2
097B A0 03 0970 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB 0984 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 A9 36 UNCRUNC 098B A9 36 098D 85 FC 098F A9 00	STA DEY BPL INC INC INC INC INC STS Ie at \$3600 CHR LDA STA LDA STA	#3 (\$FB),Y  NEW7 \$FB \$FB \$FB \$FB  for map #\$36 \$FC #0	09EC 60	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR RTS JSR RTS LDA LDA LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM  #\$93 #FFD2 #3 CLSPACE2 #\$90
097B AO 03 097D 91 FB 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 60 : ** uncrunchr set up tab 0980 85 FC 0980 A9 00 0991 85 FB	STA DEY BPL INC INC INC INC INC STS ID at \$3600 CHR LDA STA LDA STA TAY	#3 (\$FB), Y  NEW7 \$FB \$FB \$FB \$FB \$FB  for map #\$36 \$FC #0 \$FB	09EC 60 : ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60 : ** cirscrool c 09F7 A9 93 09F9 20 D2 FF 09FC A0 03 09FE 20 57 0A 0A01 A9 90 0A03 20 D2 FF	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR RTS I set cold LDA JSR LDY JSR LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM DIS #\$93 \$FFD2 #3 CLSPACE2 #390 \$FFD2
097B A0 03 097D 91 FB NEW7 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 60 : ** uncrunchr set up tab 098B A9 36 098D A9 36 098D A9 70 099B A9 00 0991 85 FB 0993 A8	STA DEY BPL INC INC INC INC STS IE at \$3600 HR LDA STA LDA STA TAY	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$for map #\$36 \$FC #0 \$FB	09EC A0 03 09FC A0 03 09FG A0 04 09F6 B0 09F6 B0 09F6 B0 09F6 B0 09F6 B0 09F7 A9 93 09F9 B0 D2 FF 09FC A0 03 09F8 B0 A0 09F6 B0 B0 B0 A0 09F6 B0 B0 B0 B0 A0 09F6 B0	MAKEMAP  clear screen and  CLRSCRCOL	JSR JSR JSR RTS I set cold LDA JSR LDY JSR LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM DIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AR
0978 A0 03 0970 91 FB 0977 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 A9 36 0988 A9 36 098B A9 36	STA DEY BPL INC INC INC INC STS He at \$3600 CHR LDA STA LDA ST	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$FB for map #\$36 \$FC #0 \$FB	09EC 60	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR RTS I set cold LDA JSR LDY JSR LDA JSR LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM  #\$93 #\$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$48 #\$90
097B AO 03 097D 91 FB 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 60 : ** uncrunchr set up tab 0980 85 FC 0980 85 FC 0980 AA 0993 AA 0995 E0 BC CRUN1	STA DEY BPL INC INC INC INC INC STS Ide at \$3600 CHR LDA STA LDA STA TAX CPX CPX CPX CPX CPX CPX CPX CPX CPX CP	#3 (\$FB), Y  NEW7 \$FB \$FB \$FB \$FB \$FB \$for map #\$36 \$FC #0 \$FB	09EC 60 : ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60 : ** cirscrool c 09F7 A9 93 09F9 20 D2 FF 09FC A0 03 09FE 20 57 0A 0A01 A9 90 0A03 20 D2 FF 0A06 A9 AB 0A08 20 D2 FF	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR RTS I set colo LDA JSR LDA JSR LDA JSR LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM DIS #\$93 \$FFD2 #30 CLSPACE2 #390 \$FFD2 #\$AB \$FFD2 #\$AB
097B A0 03 097D 91 FB 098D 10 FB 0982 E6 FB 0988 A9 36 0980 A5 FC 098F A9 00 0991 85 FB 0993 A8 0994 AA 0995 E0 BC CRUN1 0997 D0 01	STA DEY BPL INC INC INC INC RTS LDA STA LDA STA LDA STA LDA STA CPX BNE	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$FB for map #\$36 \$FC #0 \$\$FB #\$BC CRUN2	09EC 60	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR RTS JSR RTS JSR LDA JSR LDA JSR LDA JSR LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AB
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097B AO 03 097D 91 FB 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 A6 0980 85 FC 0980 A9 36 0980 85 FC 0980 A9 36 0991 A8 0993 A8 0994 AA 0995 E0 BC 0999 60	STA DEY BPL INC INC INC INC INC STS HE at \$3600 CHR LDA STA LDA STA LDA STA TAY TAX CPX BNE RTS	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$FB for map #\$36 \$FC #0 \$FB	09EC 60  : ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60  : ** cirscrool c 09F7 A9 93 09F9 20 D2 FF 09FC A0 03 09FE 20 57 0A 0A01 A9 90 0A03 20 D2 FF 0A06 A9 AB 0A08 20 D2 FF 0A08 A9 AB 0A08 20 D2 FF 0A08 A9 AB 0A09 20 65 0A 0A10 A9 A7	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR RTS JSR RTS JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM SFFD2 #393 SFFD2 #390 CLSPACE2 #390 SFFD2 #3AB SFFD2 #3AB SFFD2 #3A3 SFFD2 #3A3 SFFD2 #3A3
097B AO 03 097D 91 FB 098D 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 A9 36 098D 85 FC 098F A9 00 0991 85 FB 0993 A8 0994 AA 0995 E0 BC 0997 D0 01 ; main rts of uncrunchr 0999 60 ; crunched table (nybbles)	STA DEY BPL INC INC INC INC RTS LDA STA LDA STA LDA STA LDA STA CPX BNE RTS	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$FB for map #\$36 \$FC #0 \$\$FB #\$BC CRUN2	09EC 60	MAKEMAP clear screen and CLRSCRCOL	JSR JSR RTS JSR RTS I set cole LDA JSR LDY JSR LDA JSR LDA JSR LDA JSR LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AS \$FFD2
097B AO 03 097D 91 FB 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 B6 FB 0988 B6 10 FB 0988 B7 10 FB 10	STA DEY BPL INC	#3 (\$FB), Y  NEW7 \$FB \$FB \$FB \$FB \$FB  for map #\$36 \$FC #0 \$FB  #\$BC CRUN2  CRTBL,X	09EC 60	MAKEMAP clear screen and CLRSCRCOL	JSR JSR TS JSR JSR TS JSR TS JSR TS JSR LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AFFD2
097B AO 03 097D 91 FB 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 B6 FB 0988 A9 36 UNCRUNC 0980 85 FC 0980 85 FC 0998 A9 00 0991 85 FB 0993 AA 0995 E0 BC 0997 D0 01 0997 D0 01 0999 60 0999 60 0999 AB 01 90 8 CRUN2 0990 AB	STA DEY BPL INC INC INC INC INC STS He at \$3600 CHR LDA STA LDA STA TAY TAX CPX BNE RTS LDA PHA	#3 (\$FB), Y  NEW7 \$FB \$FB \$FB \$FB \$for map #\$36 \$FC #0 \$FB  #\$BC CRUN2  CRTBL,X	09EC 60  : ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60  : ** cirscrool c 09F7 A9 93 09F9 20 D2 FF 09FC A0 03 09FE 20 57 0A 0A01 A9 90 0A03 20 D2 FF 0A06 A9 AB 0A08 20 D2 FF 0A06 A9 AB 0A08 20 D2 FF 0A08 A9 A3 0A00 20 65 0A 0A10 A9 A7 0A12 20 D2 FF 0A15 A2 0F 0A17 A0 03	MAKEMAP  clear screen and CLRSCRCOL	JSR JSR JSR JSR RTS I set cold JSR LDA LDA JSR LDA JSR LDA LDA LDA LDA LDA LDA LDA LDA LDA LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 #30 CLSPACE2 #390 \$FFD2 #\$AB
097B AO 03 097D 91 FB 098D 10 FB 0982 E6 FB 0988 E6 FB 0988 E6 FB 0988 E6 FB 0988 A9 36 098B A9 36 098B A9 36 099B A9 00 0991 85 FB 0993 A8 0994 AA 0995 E0 BC 0997 DO 01 0999 60 0999 60 0999 BO 19 08 0990 48 0990 48 0990 48	STA DEY BPL INC INC INC INC RTS  Be at \$3600 HR LDA STA STA STA STA STA STA STA STA STA ST	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$for map #536 \$FC #0 \$\$FB  #\$BC CRUN2  CRTBL, X	09EC 60	MAKEMAP  clear screen and CLRSCRCOL  BARSPACE	JSR JSR JSR RTS JSR RTS JSR LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM  #\$93 #\$FFD2 #3 CLSPACE2 #\$48 SFFD2 #\$AB CLSPACE25 #\$AB CLSPACE25 #\$AB CLSPACE25
097B AO 03 097D 91 FB 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 AO 0  : ** uncrunchr set up tab 0980 85 FC 098F AO 00 0991 85 FB 0993 AB 0994 AA 0995 E0 BC 0991 AB 0997 DO 01  ; main rts of uncrunchr 0999 60  ; crunched table (nybbles) 099A BD 19 08 CRUN2 099D 48 099E 4A 099F 38	STA DEY BPL INC	#3 (\$FB), Y  NEW7 \$FB \$FB \$FB \$FB \$FB  for map #\$36 \$FC #0 \$FB  #\$BC CRUN2  CRTBL,X	09EC 60	MAKEMAP elear screen and CLRSCRCOL	JSR JSR JSR JSR RTS JSR RTS JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA JSR LDA LDA LDA LDA LDA LDA LDA LDA LDA LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB
097B AO 03 097D 91 FB 097F 88 0980 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 B 66 FB 0988 B 9 36 UNCRUNC 0980 85 FC 0980 85 FC 0980 85 FC 0991 85 FB 0993 AA 0995 E0 BC 0991 AA 0995 E0 BC 0997 DO 01 0997 DO 01 0999 60 0990 40 0990 40 0990 40 0990 40 0990 40 0990 40 0990 40 0990 40 0990 40 0990 40 0990 40 0990 40	STA DEY BPL INC INC INC INC RTS Ie at \$3600 CHR STA LDA STA LDA STA LDA STA LDA STA LSTA STA LSTA STA LSTA STA LSR SEC ROR	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$for map #\$36 \$FC #0 \$FB #\$BC CRUN2 CRTBL,X	09EC 60  : ** makemap 09ED 20 F7 09 09F0 20 6E 0A 09F3 20 B9 0A 09F6 60  : ** cirscrool c 09F7 A9 93 09F9 20 D2 FF 09FC A0 03 09FE 20 57 0A 0A01 A9 90 0A03 20 D2 FF 0A06 A9 AB 0A08 20 D2 FF 0A08 A9 AB 0A08 20 D2 FF 0A08 A9 AS 0A00 20 65 0A 0A10 A9 A7 0A12 20 D2 FF 0A15 A2 D2 0A17 A0 03 0A19 20 52 0A 0A1C A9 AA 0A1E 20 D2 FF	MAKEMAP  clear screen and CLRSCRCOL  BARSPACE	JSR JSR JSR RTS JSR RTS LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 \$\$90 CLSPACE2 #\$98 \$FFD2 \$\$48 \$FFD2 \$\$48 \$FFD2 \$\$48 \$FFD2 \$\$48 \$FFD2 \$\$48 \$\$47 \$\$45 \$\$47 \$\$45 \$\$47 \$\$45 \$\$45 \$\$45
097B A0 03 097D 91 FB 098D 10 FB 0982 E6 FB 0988 E6 FB 0988 E6 FB 0988 E6 FB 0988 B7 0988 A9 36 0988 A9 36 0988 A9 36 0998 A9 00 0999 A8 0999 A8 0999 A8 0999 A8 0999 CC 0998 A9 0999 CC 0990	STA DEY BPL INC INC INC INC RTS IE at \$3600 HR LDA STA LDA STA LDA STA LDA PHAR SEC ROR I SEC ROR I SR	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB  for map #536 \$FC #0 \$FB  #\$BC CRUN2  CRTBL, X	09EC 60	MAKEMAP  clear screen and CLRSCRCOL  BARSPACE	JSR JSR JSR JSR STS JSR JSR JSR LDA LDA JSR LDA JSR LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$A3 SPACE2 #\$A3 SPACE25 #\$A7 \$FFD2 #\$A6 \$FFD2 #\$A8 \$FFD2 #\$A8 \$FFD2 #\$A8 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9 #\$A9 \$FFD2 #\$A9 #\$A9 #\$A9 \$FFD2
097B AO 03 097D 91 FB 098D 10 FB 0982 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 B6 FB 0988 B7 FC 098B A3 36 098B A3 36 098B A3 36 099B A5 FC 098B A9 00 0991 85 FB 0994 AA 0995 E0 BC 0897 D0 01 0997 D0 01	STA DEY BPL INC	#3 (\$FB), Y  NEW7 \$FB \$FB \$FB \$FB \$for map #836 \$FC #0 \$FB  #\$BC CRUN2  CRTBL,X	09EC 60	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR JSR JSR JSR JSR JSR JSR LDA JSR	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 #\$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB \$FFD2 #\$BFD2 #\$BFD2 #\$BFD2 #\$BFD2 #\$BFD2 #\$BFD2
097B AO 03 097D 91 FB 098D 10 FB 0982 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 B6 FB 0988 B7 0988 B7 0988 B7 0988 B8 0989 B8 0989 B8 0989 B8 0989 B8 0999 B8	STA DEY BPL INC INC INC INC RTS Ie at \$3600 CHR LDA STA LDA STA LDA STA LDA STA LDA STA LSR SEC RCR LSR LSR LSR LSR LSR LSR LSR LSR LSR LS	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB for map #\$36 \$FC #0 \$\$FB #\$BC CRUN2 CRTBL,X	09EC 60	MAKEMAP  clear screen and CLRSCRCOL  BARSPACE	JSR JSR JSR RTS JSR RTS JSR LDA JSR LD	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$A8 \$FFD2 #\$A8 \$FFD2 #\$A8 \$FFD2 #\$A7 \$FFD2 #\$A8 \$FFD2 #\$A8 \$FFD2 #\$A8 \$FFD2 #\$A9 \$FFD2 \$FFD2 #\$A9 \$FFD2 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 \$ \$FFD2 \$FFD2 \$ \$FFD2 \$ \$FFD2 \$ \$FFD2 \$ \$FFD2 \$ \$FFD2 \$FFD2 \$FFD2 \$FFD2 \$ \$FFD2 \$ \$FFD2 \$FFD2 \$
097B AO 03 0970 91 FB 0980 10 FB 0982 E6 FB 0988 B7 0989 B7 0999 B8	STA DEY BPL INC INC INC INC RTS LDA STA LDA STA LDA PHAR LDA PHAR LDA PHAR SEC ROR LSR STA	#3 (\$FB),Y NEW7 \$FB \$FB \$FB \$FB \$for map #\$36 \$FC #0 \$FB #\$BC CRUN2  CRTBL,X	09EC 60	MAKEMAP  clear screen and CLRSCRCOL  BARSPACE	JSR JSR JSR RTS JSR RTS Set Coli LDA JSR LDA J	CLRSCRCOL CHRMAPPUT SETCOLMEM  DIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AFFD2 #\$AB \$FFD2 #\$AB
097B AO 03 097D 91 FB 098D 10 FB 0982 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 B6 FB 0988 B6 FB 0988 B7 FC 0989 B7 FC 0999 B7 FS 0999 B7 FS 0990 B7 FS	STA DEY BPL INC INC INC INC INC INC INTS STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LSR E SEC ROR LSR LSR LSR LSR LSR LSR LSR LSR LSR LS	#3 (\$FB),Y  NEW7 \$FB \$FB \$FB \$FB \$FB  for map #\$36 \$FC #0 \$FB  #\$BC CRUN2  CRTBL,X	09EC 60	MAKEMAP clear screen and CLRSCRCOL	JSR JSR JSR RTS JSR RTS LDA JSR LDA JS	CLRSCRCOL CHRMAPPUT SETCOLMEM  JS #\$93 #\$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AB \$CLSPACE25 #\$A7 \$CLSPACE25 #\$A7 \$FFD2 #\$A9 \$FFD2
097B AO 03 097D 91 FB 098D 10 FB 0982 E6 FB 0986 E6 FB 0986 E6 FB 0988 E6 FB 0988 B6 FB 0988 B7 0989 B7 0999 B	STA DEY BPL INC INC INC INC RTS LDA STA LDA LSR STA LSR	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$FB for map #\$36 \$FC #0 \$FB #\$BC CRUN2  CRTBL, X	09EC 60	MAKEMAP  clear screen and CLRSCRCOL  BARSPACE	JSR JSR JSR JSR JSR JSR ST JSR JSR LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM  #\$93 #\$93 #\$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$A8 \$FFD2 #\$A8 SPACE25 #\$A7 CLSPACE1 #\$A8 SPACE1 #\$9A \$FFD2 #\$9A
097B AO 03 0970 91 FB 0980 10 FB 0982 E6 FB 0988 B0 0998 B0 0991 85 FB 0993 A8 0994 AA 0995 E0 BC 0807 CRUN1 0997 D0 01 0997 D0 01 0997 D0 01 0997 B0 0998 B0 0994 B0 0996 CRUN2 0997 B0 0998 B0 09999 B0 099999 B0 09999 B0 09999 B0 09999 B0 09999 B0 09999 B0 09999 B0 099999 B0 09999	STA DEY BPL INC INC INC INC RTS LDA STA LDA STA LDA PHAR SEC ROR LSR STA JSR AND	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$FB  for map #336 \$FC #0 \$FB  #\$BC CRUN2  CRTBL,X  (\$FB), Y UNC1 #\$0F	09EC 60	MAKEMAP  clear screen and CLRSCRCOL  BARSPACE	JSR JSR JSR RTS JSR RTS JSR LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM  OIS #\$93 \$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AA \$FFD2 #\$A7 \$FFD2 #\$A7 \$FFD2 #\$A7 \$FFD2 #\$A9 \$FFD2
0978 B9 00 38 0978 A0 03 0979 A1 FB 0970 91 FB 0980 10 FB 0982 E6 FB 0986 E6 FB 0988 E6 FB 0988 E6 FB 0988 B5 FC 0988 A9 36 0988 A9 36 0998 A9 00 0999 B5 FC 0998 A9 00 0991 B5 FB 0993 A8 0994 AA 0995 E0 BC CRUN1 0997 D0 01 0998 B0 19 08 CRUN2 0999 B0 00 0999 B0 00 00999 B0 0099 B0 00999 B0 00999 B0	STA DEY BPL INC INC INC INC INC INTS STA STA LDA STA LSE RTS SEC ROR LSR LSR LSR LSR LSR LSR LSR LSR LSR LS	#3 (\$FB), Y NEW7 \$FB \$FB \$FB \$FB \$FB for map #\$36 \$FC #0 \$FB #\$BC CRUN2  CRTBL,X  (\$FB), Y UNC1 #\$0F #\$20	09EC 60	MAKEMAP  clear screen and CLRSCRCOL  BARSPACE	JSR JSR RTS JSR RTS LDA LDA JSR LDA	CLRSCRCOL CHRMAPPUT SETCOLMEM  IS #\$93 #\$FFD2 #3 CLSPACE2 #\$90 \$FFD2 #\$AB \$FFD2 #\$AB \$FFD2 #\$AB \$CLSPACE25 #\$A7 \$CLSPACE25 #\$A7 \$CLSPACE1 #\$A9 #\$A9 \$FFD2 #\$B9 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9 \$FFD2 #\$A9

0A32 20 D2 FF		JSR	\$FFD2  BARSPACE #3 CLSPACE1 #\$AE \$FFD2 #\$AE \$FFD2 #146 \$FFD2 #13 \$FFD2 #146 \$FFD2  #13 \$FFD2 #18 \$FFD2  #25 \$FFD2  #25 \$FFD2  #25 \$FFD2  #25 \$FFD2 #25 \$FFD2  #25 \$FFD2  #25 \$FFD2  #25 \$FFD2  #25 \$FFD2  #25 \$FFD2  #27  #28 #30 #30 #30 #30 #30 #30 #30 #30 #30 #30	0AB0 85 FD		STA	\$FD
0A35 CA		DEX	<b>4</b>	0AB2 90 02		BCC	MPS3
0A36 D0 DF		BNE	BARSPACE	OAB4 E6 FE		INC	\$FE
0A38 A0 03		LDY	#3	0AB6 A0 00	MPS3	LDY	#0
0A3A 20 52 0A		JSR	CLSPACE1	0AB8 60		RTS	
UA3D A9 AE		LDA	#\$AE				
0A3F 20 D2 FF		JSK	\$FFD2	; ** setcolmem	OCTOOL MENA	104	
0A42 A9 AU		LUA	#\$AU CDACEDE	UABB AS UF	SETCULMEM	LUA	#15 #50
0A44 20 00 0A		JON	JPAUEZU #PAD	OADD OD F9		2 IA	かしら
0A40 20 D2 FF		ISB	&EEU5	OADD AS DO		CTA	# <b>\$</b> 00
0A4C A9 92		IDA	#146	0AC1 A9 2C		IDA	#\$2C
0A4E 20 D2 FF		JSR	\$FFD2	0AC3 85 FD		STA	\$FD
: main rts of clrsc	rcol	00	<b>4</b> 52	0AC5 85 F7		STA	\$F7
0A51 60		RTS		0AC7 A9 04		LDA	#4
;				0AC9 85 F8		STA	\$F8
0A52 A9 0D	CLSPACE1	LDA	#13	0ACB A9 22		LDA	#>MAPAMAP
0A54 20 D2 FF		JSR	\$FFD2	OACD 85 FC		STA	\$FC
0A57 A9 20	CLSPACE2	LDA	#32	OACF A9 AD		LDA	# <mapamap< td=""></mapamap<>
0A59 20 D2 FF	CLSPCLOOP	JSR	\$FFD2	0AD1 85 FB		STA	\$FB
045D D0 F4		DET	OL COOL OOD	0AD5 04 50	SLECT	LDY	#24
0A3D DU FA 0A5E A0 12		DIVE	ULSPULUUP #10	UADO BI FB	SETULUUP	LUA	(\$FB),Y
0AS1 AS 12		ISR	# 10	OADA CO OD		DEU	#U CETC1
0A64 60		RTS	ΦI I UZ	0ADS FO 2B		STA	\$02
		1110		0ADD 00 02 0ADD 29 3F		AND	#&3E
0A65 A0 19	SPACE25	LDY	#25	OADE AA		TAX	пфог
0A67 20 D2 FF	SPCLP	JSR	\$FFD2	0AE0 BD C0 37		LDA	LEANTABLE.X
0A6A 88		DEY		0AE3 29 0F		AND	#\$0F
0A6B D0 FA		BNE	SPCLP	0AE5 91 FD		STA	(\$FD),Y
0A6D 60		RTS		0AE7 A9 C0		LDA	#\$C0
·				0AE9 24 02		BIT	\$02
; "" chrmapput	OLIDA AADOLIT	104		OAEB FO 19		BEQ	SETC1
0ADE A9 U4	CHRIMAPPUT	LUA	#4	UAEU 30 UB		RMI	SEIUZ CEOTADLE V
0A7U 00 FE		SIA	φre φre	UAEF BD /8 22		LUA	SECIABLE,X
· Incation for scree	en	LUA	#\$20	DAFE DO DE		DVIE	CETC1
0A74 85 FD	J11	STA	\$FD	0AF7 50 07	SETC2	BVC	SETC3
0A76 A9 36		LDA	#>MAPTABLE	0AF9 A9 C0	OLIOL	IDA	#\$C0
0A78 85 FC		STA	\$FC	OAFB 20 9B 0A		JSR	BLIX
0A7A A9 00		LDA	# <maptable< td=""><td>0AFE D0 06</td><td></td><td>BNE</td><td>SETC1</td></maptable<>	0AFE D0 06		BNE	SETC1
0A7C 85 FB		STA	\$FB	0B00 BD 79 22	SETC3	LDA	Tertable,X
0A7E A9 00		LDA	#0	0B03 20 93 0A		JSR	UNSECT
0480 A8		IAY	<b>"00</b> 5	0806 EA	SETC1	NOP	
0A01 A2 UF	MODUT1	LDA	# <b>\$</b> Ur /#CD\ V	0807 88 0000 10 CD		DEY	CETCLOOD
0A03 D1 FD 0A85 D0 07	MIFFUIT	DNE	(DCD), T MDDI ITO	0000 10 GB	ENDI INEM	BPL	SEIGLOUP
0A87 20 A0 0A		JSR	MPSR1	OBOA AS IS	CINDLINEIN	CLC	#23
OASA CA		DEX	WII OITT	0B0D 65 FB		ADC	\$FR
0A8B D0 F6		BNE	MPPUT1	0B0F 85 FB		STA	\$FB
0A8D 60		RTS		0B11 90 02		BCC	ENDL1
0A8E 91 FD	MPPUT2	STA	(\$FD),Y	0B13 E6 FC		INC	\$FC
0A90 C8		INY		0B15 C6 F9	ENDL1	DEC	\$F9
0A91 D0 F0		BNE	MPPUT1	0B17 D0 01		BNE	ENDL2
UA93 29 3F	UNSECT	AND	#\$3F	; exit setcolmem			
OAGE DD CO 27		IAX	LEANTADLEV	0819 60	ENDLO	HIS	<b>##00</b>
0V20 DD CO 21		TDA LDA	HEAN IADLE, A	0DIA A9 20 0R1C 10	ENULZ	CLC	#Ф20
0A9R 11 F7	RLIY	UBA	#\$C0 (\$F7) V	0B10 16 0B10 65 E7		ADC	¢E7
0A9D 91 F7	DLIX	STA	(\$F7) Y	081E 85 F7		AT2	\$F7
0A9F 60		RTS	(4),	0821 90 02		BCC	ENDL3
0AA0 18	MPSR1	CLC		0823 E6 F8		INC	\$F8
0AA1 A9 1A		LDA	#\$1A	0B25 A9 28	ENDL3	LDA	#\$28
0AA3 65 FB		ADC	\$FB	0B27 18		CLC	
0AA5 85 FB		STA	\$FB	0B28 65 FD		ADC	\$FD
0AA7 90 02		BCC	MPS2	0B2A 85 FD		STA	\$FD
UAA9 E6 FC	14000	INC	\$FC	UB2C 90 A5		BCC	SLECT
UAAB A9 28	MPS2	LDA	#\$28	OBSC DS 44		INC	\$FE
DAVE SE ED		OLC:	¢ED.	OR30 D0 A1		RNF	SLEUT
עארב עט דע		ADU	ΦLN	1			

; ** dorainbow				; == republicans	;	074	<b>4</b> 50
0B32 AD 12 D0	DORAINBOW	LDA	\$D012	0886 85 F8		SIA	\$F8 #2
0835 48 0836 65 43		ADC	\$A2	0000 AU UZ		JSB	PUCKER
0838 4A		LSB	ΨAZ	0BBD A5 F7		LDA	\$F7
0B39 4A		LSR		OBBF A0 01		LDY	#1
OB3A 4A		LSR		0BC1 20 E6 0B		JSR	PUCKER
0B3B A8		Tay		OBC4 A9 FF		LDA	#\$FF
0B3C 68		PLA	***	0BC6 A0 05		LDY	#5
0B3D E5 A2		SBC	\$A2	0BC8 91 FD		5IA	(\$FD),Y
083F 4A 0840 8D 20 D0		CTA	\$D020	0BCC 18		CLC	#3
0B40 8D 20 D0		STY	\$D020 \$D024	0BCD 65 FD		ADC	\$FD
: exit dorainbow		0		OBCF 85 FD		STA	\$FD
0B46 60		RTS		0BD1 4C 9F 0B		JMP	PVMLOOP
0B47 1F 43 41	CAMMGR	.ASC	"{BLU}CAMPAIG	; patch - set up si	evote table/elec	ctoral vo	les 40
0050 00 00		DVTE	N MANAGER"	OBD4 A9 UU	EVDOI	TAY	#0
0B38 UD UU	CMLOCOPLIT	.BTIE	13,U #18	ORDO AA		TAY	
0B5A A2 12 0B5C A0 08	CIVILOGOFOT	IDY	#10 #8	0BD8 B9 44 22	EVOLUT	LDA	CREVOTE,Y
0B5E 18		CLC		0BDB 9D 00 78		STA	STEVOTE,X
; kernal plot				OBDE E8		INX	
0B5F 20 F0 FF		JSR	\$FFF0	OBDF E8		INX	
0B62 A2 00	10001000	LDX	#U	0BE0 C8		CDV	#52
0864 BD 47 UB	LUGGLUUP	REO.	CAIVINGN,A OUTOLOGG	08E3 D0 E3		BNF	EVOLUT
0869 20 D2 FF		JSR	\$FFD2	0BE5 60		RTS	21020
0B6C E8		INX	<b>42</b>	0BE6 91 FD	PUCKER	STA	(\$FD),Y
0B6D D0 F5		BNE	LOGGLOOP	0BE8 C8		INY	
0B6F A0 05	OUTOLOGG	LDY	#5	OBE9 C8		INY	(AED) V
0B71 A9 01		LDA	#1	OBEA 91 FD		DIA	(\$FD),Y
0B/3 8D 86 02		DIA LDA	040 #18	· ** now initialize	issues for each	state	
. Levelse uu		LUA	#10	0BED A9 91	INITISS	LDA	#>STISSUES
0878 20 D2 FF		JSR	\$FFD2	0BEF 85 F8		STA	Z1+1
0B7B A2 28	OUTPLOGG	LDX	#40	0BF1 A9 00		LDA	# <stissues< td=""></stissues<>
0B7D AD 86 02		LDA	646	0BF3 85 F7		STA	Z1
0B80 49 03		EOR	#3	0BF5 E6 F7		CTA	Z1 Z4+1
, toggie reu anu v	wille	QTA	646	ORFQ AA		TAX	2411
0B85 A9 A3		LDA	#163	z1 is indirect poir	iter/z4+1 is st	atenumb	per
0B87 20 D2 FF	FLAGLER	JSR	\$FFD2	0BFA A2 00	,	LDX	#0
OB8A CA		DEX		OBFC BD BD 24	BGINTISS	LDA	ISSU1,X
OB8B DO FA		BNE	FLAGLER	0BFF 85 F9		SIA	22
088D 88		DNE	OUTDLOCG	0001 4A 0002 4A		LON	
080E DU EB		IDA	#146	0C02 4A		LSR	
; exit cmlogoput v	ria jump			0C04 4A		LSR	
0B92 4C D2 FF	• •	JMP	\$FFD2	0C05 85 FA		STA	Z2+1
;		. 1. 1	04007	0C07 BD F0 24		LUA	ISSU2,X
; ^^ INITDV Sets	up stpvotes t	ADIE AL D	#~ etd/ntec	UCUA 65 FB		LSR	23
0893 A9 92 0897 85 FF	INITE	STA	\$FF	0C0D 4A		LSR	
0B99 A9 00		LDA	# <stpvotes< td=""><td>0C0E 85 FC</td><td></td><td>STA</td><td>Z3+1</td></stpvotes<>	0C0E 85 FC		STA	Z3+1
0B9B 85 FD		STA	\$FD	0C10 4A		LSR	
0B9D A2 00		LDX	#0	0C11 4A		LSR	74
0B9F E8	PVMLOOP	INX	DVCDUNCU	0C12 85 FD		SIA	24 #1
OBAU EC 89 24		REO.	FVCHUNCH	0C16 A2 04		IDX	#4
0BA5 PD 89 24	DOPVM	LDA	PVCRUNCH.X	0C18 B5 F9	UNDPL000P	LDA	
0BA8 85 F9	J	STA	\$F9	0C1A 48		PHA	•
0BAA 29 07		AND	#\$07	0C1B 29 03		AND	#3
; == democrats	3	CT4	<b>6</b> E7	UCTD 18		VDC VLC	#1
OBAE 45 E0		21A	ΦΓ/ <b>QEO</b>	OCIE DO UI		ADU	# I
OBAE AS FS		LDA	ψıJ	0C20 91 F7		STA	(Z1),Y
OBB1 4A		LSR		0C22 68		PLA	4- W
0BB2 4A		LSR		0C23 4A		LSR	
0BB3 4A		LSR	<b>#407</b>	0C24 4A		LSR	щo
0BB4 29 07		AND	\$D012 \$A2 \$A2 \$D020 \$D024  "{BLU}CAMPAIG N MANAGER" 13.0  IN MANAGER" 13.0  #18 #8  \$FFF0 #0 COUTOLOGG \$FFD2  LOGGLOOP #5 #1 646 #18  \$FFD2 #40 646 #18  \$FFD2 #40 646 #3 \$FFD2  FLAGLER  OUTPLOGG #146 \$FFD2  PUCRUNCH EVDOT PVCRUNCH, X \$F9 #\$07  \$F7 \$F9	0025 29 03		ANU	#3

0C27 18	CLC		OCA3 A9 9E		LDA	#\$9E
0C28 69 03	ADC	#3	0CA5 20 D2 FF	P1	JSR	\$FFD2
0C2A 0A	ASL	"0	0CA8 20 5A 0B		JSR	CMLOGOPUT
0C2B 0A	ASL		OCAR 20 1F 14		JSR	SETUPMENU
0C2C 0A	ASL		0CAE 20 32 0B 0CB1 20 1A 1F	P1	JSR	DORAINBOW
0C2D 0A	ASL		0CB1 20 1A 1F		JSR	IJKL
0C2E 11 F7	ORA	(Z1),Y	OCB4 AD 6B 1F		LDA	JB
; reps			0CB7 F0 F5		BEQ	P1
0C30 91 F7	STA	(Z1),Y	OCB9 20 D9 09		JSR	COLORTOGL
0C32 88	DEY		OCBC 20 60 0C		JSR	RANDON
0C33 CA	DEX		; ** poneparty	party of player	one	
0C34 10 E2	BPL	UNDPL000P	0CBF A2 04	PONEPARTY	LDX	#4
0000 50 57	1110	74	0001 AU 05		LDY	#5
0000 10 00	INC	Z1	0003 20 A3 10		JSR	SELECT
0C38 A0 02	LDY LDA AND	#Z #60F	0000 00 00 05		SIA	PARTY
0C3A A9 0F UNDP	LUA	#\$Ur (74) \/	0009 8D 23 25		SIA	FIRSTCAN
0C3C 31 F7	AND	(Z1),Y	; "" DINCUM CI	Teck for incume	ent	<b>"7</b>
0C3E AA 0C3F E8 0C40 8A	IAX		0000 AZ 07	BINCUM	LDX	#7 #9
003F E6	TVA		000E AU US		LUT	#9 SELECT
0C41 0A	ACI		0000 20 43 10		IDV	#0
0C42 0A	ASL		00D3 A2 00		LDV	#0 #0
0C43 0A	ASI		00D3 A0 00		CMD	#0 #0
0C44 0A	ASI		0CD7 C3 00		BEO	NONINCUM
0C45 85 02	STA	\$02	00D3 10 07		AND	#1
0C47 8A	TXA	ΨυΣ	0CDD E0 02		REO	TWOINCUM
0C48 05 02	ORA	\$02	OCDE CA		DEX	1 11011100111
0C4A 91 F7	STA	(71) Y	OCEO CR		INY	
0C4C 88	DEY	(= 1),1	0CF1 88	TWOINCLIM	DEY	
0C4D D0 EB	BNE	UNDP	OCF2 8F 0F 8F	NONINCUM	STX	INCUMB
0C4F E6 F7	INC	Z1	OCE5 8C 4F 8F		STY	OTINCUMB
0C51 E6 F7	INC	Z1	OCE8 20 2E 11	OKSTPAR	JSR	PRESSFIRE
0C53 E6 F7	INC	Z1	OCEB DO 03		BNE	GONNGY
ACCE FO F7	INIO					
0C55 E6 F7	INC	Z1	OCED 4C 9D OC		JMP	PRELIMXX
0C57 E6 FE	INC	Z1 Z4+1	0CED 4C 9D 0C 0CF0 60	GONNGY	JMP RTS	PRELIMXX
0C57 E6 FE 0C59 A6 FE	INC INC LDX	Z1 Z4+1 Z4+1	0CED 4C 9D 0C 0CF0 60 ;	GONNGY	JMP RTS	
0C57 E6 FE 0C59 A6 FE 0C5B E0 33	INC INC LDX CPX	Z1 Z4+1 Z4+1 #51	OCED 4C 9D 0C OCFO 60 ; ; bkcm.pick	GONNGY	JMP RTS	
0C57 E6 FF 0C59 A6 FE 0C5B E0 33 0C5D D0 9D	INC INC LDX CPX BNE	Z1 Z4+1 Z4+1 #51 BGINTISS	OCED 4C 9D 0C OCFO 60 ; ; bkcm.pick	GONNGY	JMP RTS	
0C55 E6 F7 0C57 E6 FE 0C59 A6 FE 0C5B E0 33 0C5D D0 9D 0C5F 60	INC INC LDX CPX BNE RTS	(Z1),Y (Z1),Y (Z1),Y UNDPLOOOP Z1 #2 #\$0F (Z1),Y  \$02 \$02 (Z1),Y UNDP Z1 Z1 Z1 Z1 Z4+1 #51 BGINTISS	OCED 4C 9D 0C 0CF0 60 ; ; bkcm.pick : *** pickcand	GONNGY routine to pick	JMP RTS	
0C57 E6 FE 0C59 A6 FE 0C58 E0 33 0C5D D0 9D 0C5F 60	INC INC LDX CPX BNE RTS	Z1 Z4+1 Z4+1 #51 BGINTISS	OCED 4C 9D 0C OCFO 60 ; ; bkcm.pick : *** pickcand ; first generate fiv	GONNGY routine to pick e candidates	JMP RTS	
0C57 E6 FE 0C59 A6 FE 0C58 E0 33 0C5D D0 9D 0C5F 60	INC INC LDX CPX BNE RTS	Z1 + 1	OCED 4C 9D 0C OCFO 60 ; bkcm.pick ; *** pickcand ; first generate fiv OCF1 A9 00	GONNGY  routine to pick e candidates PICKCAND	JMP RTS a cand	
0C57 E6 FE 0C59 A6 FE 0C5B E0 33 0C5D D0 9D 0C5F 60	INC LDX CPX BNE RTS LDA STA	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F	OCED 4C 9D 0C 0CF0 60 ; ; bkcm.pick : *** pickcand ; first generate fiv 0CF1 A9 00 0CF3 8D 24 25	GONNGY  routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA	
0C57 E6 FE 0C59 A6 FE 0C58 E0 33 0C5D D0 9D 0C5F 60 : 0C80 A9 FF RANDON 0C62 8D 0F D4 0C65 A9 80	INC LDX CPX BNE RTS LDA STA LDA	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$040F #880	OCED 4C 9D 0C OCFO 60  ; bkcm.pick ; *** pickcand -; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80	GONNGY routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA LDA	
0C57 E6 FE 0C59 A6 FE 0C58 E0 33 0C5D D0 9D 0C5F 60 ; 0C60 A9 FF RANDON 0C62 8D 0F D4 0C65 A9 80 0C67 8D 12 D4	INC LDX CPX BNE RTS LDA STA LDA STA	Z1 + 1	OCED 4C 9D 0C OCFO 60  ; ; bkcm.pick ; ; *** pickcand ; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7	GONNGY routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA LDA STA	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC LDX CPX BNE RTS LDA STA LDA STA STA	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F #\$80 \$D412 \$D418	OCED 4C 9D 0C 0CF0 60 ; ; bkcm.pick ; ;*** pickcand ; first generate fiv 0CF1 A9 00 0CF3 8D 24 25 0CF6 A9 80 0CF8 85 F7 0CFA A9 8F	GONNGY routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA LDA STA LDA	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC INC LDX CPX BNE RTS LDA STA LDA STA STA RTS	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$040F #\$80 \$0412 \$D418	OCED 4C 9D 0C OCFO 60  ; bkcm.pick ; *** pickcand; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F; holding area	GONNGY routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA LDA STA LDA	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC INC LDX CPX BNE RTS LDA STA LDA STA STA RTS	Z1 + 1	OCED 4C 9D 0C OCFO 60  ; ; bkcm.pick ; ;*** pickcand ; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8	GONNGY routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA LDA STA LDA	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC INC LDX CPX BNE RTS LDA STA LDA STA RTS	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F #880 \$D412 \$D418	OCED 4C 9D 0C OCFO 60  this pkcm.pick first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F holding area OCFC 85 F8 OCFE A9 05	GONNGY routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA LDA STA LDA	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC INC LDX CPX BNE RTS LDA STA LDA STA RTS LDX LDA STA	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F #\$80 \$D412 \$D418 #64 #0	OCED 4C 9D 0C OCFO 60 ; ; bkcm.pick ; ;*** pickcand ; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of cand	GONNGY routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA LDA STA LDA	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC INC LDX CPX BNE RTS LDA STA STA RTS LDX LDX STA STA	Z1 + 1 Z4 + 1 #51 #51 BGINTISS  #\$FF \$D40F #\$80 \$D412 \$D418  #64 #0 DAY,X OTHERCAND X	OCED 4C 9D 0C CF0 60 ; bkcm.pick ; *** pickcand ; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 8D OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFC 85 F	GONNGY  routine to pick e candidates PICKCAND	JMP RTS a cand LDA STA LDA STA LDA STA LDA	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC INC LDX CPX BNE RTS LDA STA STA RTS LDX LDA STA STA STA STA STA	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X	OCED 4C 9D 0C OCFO 60  ; ; bkcm.pick ; ; *** pickcand; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F; holding area OCFC 85 F8 OCFE A9 05 ; number of cand ODO 85 02 OD02 A0 05 OD04 A2 03	GONNGY  routine to pick e candidates PICKCAND  idates generated ANIDLOOP ANID5	JMP RTS a cand LDA STA LDA STA LDA STA LDA STA LDA LDY LDY LDX	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC ILDX CPX BNE RTS LDA STA LDA STA STA STA STA STA STA STA STA STA ST	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F #880 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP	OCED 4C 9D 0C OCFO 60  ; ; bkcm.pick ; ; *** pickcand ; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4	GONNGY  routine to pick e candidates PICKCAND  idates generated ANIDLOOP ANID5	JMP RTS  a cand LDA STA LDA STA LDA STA LDA STA LDA LDA LDY LDX LDX LDX	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC LDX CPX BNE RTS LDA STA STA STA RTS LDX LDA STA STA STA STA STA STA STA STA STA ST	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80	OCED 4C 9D 0C OCFO 60 ; ; bkcm.pick ; ; *** pickcand ; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4	routine to pick e candidates PICKCAND  dates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand  LDA  STA  LDA  STA  LDA  STA  LDA  STA  LDA  LDA  STA  LDA  LDA  AND	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4	INC INC LDX CPX BNE RTS LDA STA LDA STA STA LDX LDA STA STA DEX BNE LDA STA STA STA	Z1 + 1 Z4 + 1 #51 BGINTISS  #\$FF \$D40F #\$80 \$D412 \$D418  #64 #0 DAY,X OTHERCAND,X  PRELPP #\$80 650	OCED 4C 9D 0C OCFO 60  ; ; bkcm.pick ; ; *** pickcand ; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F; holding area OCFC 85 F8 OCFC A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD09 29 03 OD09 29 03 OD09 55 F9	routine to pick e candidates PICKCAND dates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand  LDA  STA	
0C65 A9 80 0C67 8D 12 D4 0C6A 8D 18 D4 0C6D 60 ; " prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08	INC LDX CPX BNE RTS LDA STA STA STA RTS LDX LDA STA STA STA STA STA STA STA STA STA ST	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #880 650 #8	OCED 4C 9D 0C OCFO 60    bkcm.pick   the pick and   first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F   holding area OCFC 85 F8 OCFE A9 05   number of cand OD00 85 02 OD02 A0 05 DD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 OD0D CA	routine to pick e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand  LDA STA LDA STA LDA STA LDA STA LDA AND LDX LDX LDX LDX LDX LDX LDX LDX LDX LD	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 ; ** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C78 A9 80 0C7D 8D 8A 02 0C80 A9 08	INC INC LDX CPX BNE RTS LDA STA STA STA RTS LDX LDA STA STA STA STA STA STA STA STA STA ST	Z1 Z4+1 Z4+1 #51 BGINTISS #\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	OCED 4C 9D 0C OCFO 60  ; bkcm.pick ; *** pickcand ; first generate fiv OCF1 A9 00 OCF3 8D 24 25 OCF6 A9 80 OCF8 85 F7 OCFA A9 8F; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 OD0D CA OD0E D0 F6	routine to pick e candidates PICKCAND	JMP RTS  a cand  LDA  STA  LDA  STA  STA  LDA  STA  STA  LDA  STA  STA  LDA  STA  STA  STA  LDA  STA  STA  STA  STA  STA  STA  STA  S	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 ; ** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C78 A9 80 0C7D 8D 8A 02 0C80 A9 08	INC LDX CPX BNE RTS LDA STA STA STA STA STA STA STA LDX LDA STA STA LDA STA LD	Z1 + 1	OCED 4C 9D 0C OCFO 60    bkcm.pick     the pickcand     first generate fiv OCF1 A9 00   OCF3 8D 24 25   OCF6 A9 8D 0CF8 85 F7   OCFA A9 70   OCFA 85 F8     holding area   OCFC 85 F8     cholding area   OCFC 85 F8     cholding area   OCFC 85 F8   OC	routine to pick e candidates PICKCAND	JMP RTS  a cand  LDA  STA  LDA  LDA  STA  LDA  STA  LDA  LDA  LDA  STA  LDA  LDA  STA  LDA  LDA  LDA  LDA  LDA  LDA  LDA  L	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 ; ** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C78 A9 80 0C7D 8D 8A 02 0C80 A9 08	INC INC INC INC INC INC INC INC INC INC	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 OD0D CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand  LDA  STA  LDA  STA  LDA  STA  LDA  STA  LDA  STA  LDA  STA  LDA  AND  STA  AND  AND  AND	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 ; ** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C78 A9 80 0C7D 8D 8A 02 0C80 A9 08	INC ILDX CPX BNE RTS LDA STA STA STA STA STA STA STA STA STA ST	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 OD0D CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand  LDA STA LDA AND CLC STA AND CLC CLC	
0C65 A9 80 0C67 8D 12 D4 0C60 8D 18 D4 0C60 60 ; ** prelim sets up tables 0C6E A2 40 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C79 D0 F7 0C78 CA 0C79 D0 F7 0C7B A9 80 0C70 8D 8A 02 0C70 8D 8A 02 0C80 A9 08 ; set repeat key & disable c=sl 0C82 20 D2 FF 0C85 20 95 0B 0C88 20 FA 1A	INC ILDX CPX BNE BNE BNE LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA STA STA STA STA STA STA STA STA ST	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 OD0D CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand LDA STA LDA STA LDA STA LDA LDA STA LDA LDA AND STA LDA AND STA LDA AND AND AND AND AND AND AND AND AND A	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 60 ; ** prelim sets up tables 0C6E A2 40 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08 ; set repeat key & disable c = si 0C82 20 95 0B 0C88 20 FA 1A ; sets up initial leanings 0C68 20 6C 1B	INC ILDX CPX BNE BNE LDA STA LDA STA STA STA STA STA STA STA STA STA ST	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 ODD CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand  LDA STA LDA AND STA AND CLC ADC ADC ADC	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 .** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08 . set repeat key & disable c=sl 0C82 20 D2 FF 0C85 20 95 0B 0C88 20 FA 1A . sets up initial leanings 0C88 20 6C 1B . sets up menu table at \$8000	LDA STA STA RTS LDX LDA STA STA DEX BNE LDA STA LDA oift JSR JSR JSR	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 ODD CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand LDA STA STA LDA STA STA STA STA STA STA STA STA STA ST	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 .** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08 . set repeat key & disable c=sl 0C82 20 D2 FF 0C85 20 95 0B 0C88 20 FA 1A . sets up initial leanings 0C88 20 6C 1B . sets up menu table at \$8000	LDA STA STA RTS LDX LDA STA STA DEX BNE LDA STA LDA oift JSR JSR JSR	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 ODD CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand LDA LDA STA LDA STA LDA STA LDA STA LDD STA LDD STA LDD STA AND STA AN	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 .** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08 . set repeat key & disable c=sl 0C82 20 D2 FF 0C85 20 95 0B 0C88 20 FA 1A . sets up initial leanings 0C88 20 6C 1B . sets up menu table at \$8000	LDA STA STA RTS LDX LDA STA STA DEX BNE LDA STA LDA nift JSR JSR JSR	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 ODD CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand LDA STA LDA STA LDA STA LDA STA LDA AND STA LDA AND STA AND ENE LDA ENE LD	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 .** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08 . set repeat key & disable c=sl 0C82 20 D2 FF 0C85 20 95 0B 0C88 20 FA 1A . sets up initial leanings 0C88 20 6C 1B . sets up menu table at \$8000	LDA STA STA RTS LDX LDA STA STA DEX BNE LDA STA LDA nift JSR JSR JSR	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 ODD CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	JMP RTS  a cand LDA STA LDA STA LDA STA LDA STA LDA STA LDA AND CLC ADC ADC ADC ADC ADC ADC ADC ADC ADC AD	
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 .** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08 . set repeat key & disable c=sl 0C82 20 D2 FF 0C85 20 95 0B 0C88 20 FA 1A . sets up initial leanings 0C88 20 6C 1B . sets up menu table at \$8000	LDA STA STA RTS LDX LDA STA STA DEX BNE LDA STA LDA nift JSR JSR JSR	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 ODD CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	LDA STA LDA STA LDA STA LDA STA LDA STA LDA LDA STA DEX BNE LDA AND STA AND BNE LDA AND BNE LDA AND BNE LDA AND BNE LDA BNE LDA BNE BNE BNE BNE	#0 WEEKNO # <canstack #="" z1=""> CANSTACK Z1+1 #5 \$02 #5 #3 RAND #3 Z2,X ANODLOOP #1 Z2+1 #1 Z3 Z3+1 (Z1),Y ANID5</canstack>
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 60 ; ** prelim sets up tables 0C6E A2 40 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08 ; set repeat key & disable c = si 0C82 C0 D2 FF 0C85 20 D2 FF 0C85 20 95 0B 0C88 20 FA 1A ; sets up initial leanings 0C8B 20 6C 1B ; sets up menu table at \$8000 0C8E 20 80 17 0C91 20 8B 09 0C94 20 1E 1C 0C97 20 D9 08 0C9A 20 ED 08	LDA STA RTS LDA STA STA STA DEX ENE LDA STA JSR JSR JSR JSR JSR JSR JSR JSR JSR JSR	#\$FF \$D40F #\$80 \$D412 \$D418 #64 #0 DAY,X OTHERCAND,X PRELPP #\$80 650 #8	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 ODD CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA LDA STA LDA STA LDA STA LDA STA LDA STA LDA LDA STA LDA LDA LDA STA LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	#0 #CANSTACK Z1 #>CANSTACK Z1+1 #5 \$02 #5 #3 RAND #3 Z2,X  ANODLOOP #1 Z2+1 #1 Z3 Z3+1 (Z1),Y  ANID5 #6
0C65 A9 80 0C67 8D 12 D4 0C68 8D 18 D4 0C60 8D 18 D4 0C60 60 .** prelim sets up tables 0C6E A2 40 PRELIM 0C70 A9 00 0C72 9D 00 8F PRELPP 0C75 9D 40 8F 0C78 CA 0C79 D0 F7 0C7B A9 80 0C7D 8D 8A 02 0C80 A9 08 . set repeat key & disable c=sl 0C82 20 D2 FF 0C85 20 95 0B 0C88 20 FA 1A . sets up initial leanings 0C88 20 6C 1B . sets up menu table at \$8000	LDA STA RTS LDA STA STA STA DEX ENE LDA STA JSR JSR JSR JSR JSR JSR JSR JSR JSR JSR	Z1 Z4+1 Z4+1 #51 BGINTISS  #\$FF \$D40F #\$80 \$D412 \$D418  #64 #0 DAY,X OTHERCAND,X  PRELPP #\$80 650 #8  \$FFD2 INITPV CKDEMREP  TRANSLEANCOLR  SETREGMENU UNCRUNCHR SETSEL NEWCHRSET INITISS COLORTIGL MAKEMAP	, pickanu - ; first generate fiv OCF1 A9 00 CF3 8D 24 25 CCF6 A9 80 OCF8 85 F7 OCFA A9 8F ; holding area OCFC 85 F8 OCFE A9 05 ; number of candi OD00 85 02 OD02 A0 05 OD04 A2 03 OD06 AD 1B D4 OD09 29 03 OD08 95 F9 ODD CA OD0E D0 F6 OD10 A9 01 D112 25 FA	e candidates PICKCAND  idates generated ANIDLOOP ANID5 ANODLOOP	LDA STA LDA STA LDA STA LDA STA LDA STA LDA LDA STA DEX BNE LDA AND STA AND BNE LDA AND BNE LDA AND BNE LDA AND BNE LDA BNE LDA BNE BNE BNE BNE	#0 WEEKNO # <canstack #="" z1=""> CANSTACK Z1+1 #5 \$02 #5 #3 RAND #3 Z2,X ANODLOOP #1 Z2+1 #1 Z3 Z3+1 (Z1),Y ANID5</canstack>

0D27 AA	TAX		0DA3 8D 0A 8F	STA	LASTSTATE
0D28 C0 08	CPY	#8	0DA6 C8	INY	
OD2A FO OA	BEQ	UPANN	0DA7 B1 F7	LDA	(Z1),Y
0D2C C0 09	CPY	#9	; home&job	OTA	IOD
0D2E F0 06	BEU	UPANN	0DA9 8D 0D 8F	SIA	SETUPATTRIB
0D30 AD 15 8F	LUA	PART Y	0DAC 20 E4 0E	JON	DICKUME
0D35 FU UZ	INV	UPANIZ	0DAF 20 EE 0E	RNF	DIMPR
UD30 EQ LIDANN	IMY		· not selected	DINL	DOWN 11
0D30 E0 GFANN 0D37 FR LIPANI2	INX		ODB4 4C 6A OD	.IMP	NEXN9
OD38 8A	TXA		: a candidate has been chosen	••••	
0D39 91 F7	STA	(Z1),Y	now make up a name		
0D3B C8	INY	. ,	0DB7 20 2E 11 DUMPR	JSR	PRESSFIRE
OD3C CO OB	CPY	#11	ODBA FO A9	BEQ	FRIIS
0D3E D0 E2	BNE	ANNNLOOP	ODBC A2 00 REDUUT	LDX	#0
; (issues are set up)			0DBE 86 F8	SIX	21+1
0D40 AD 1B D4 STRNNN	LUA	KAND "CO	0DC0 A0 05	LUY	#0
0D45 29 3F	AND	#03 CTDNNN	0DC2 20 E0 EE	ICD	<b>¢</b> EEEO
0D47 C0 24	CMD	31 NIVIVIV	0DC3 20 F0 FF 0DC6 AD 15 RF	I DA	PARTY
0047 C9 34 0040 R0 E5	BUS.	STRNNN	0DC9 CD 23 25	CMP	FIRSTCAN
0D49 B0 13 0D4R 91 F7	STA	(71) Y	0DCC F0 02	BEQ	PICKANAME
OD4D C8	INY	(- '), '	ODCE A2 OC	LDX	#12
: (and the home state)			0DD0 86 F7 PICKANAME	STX	Z1
OD4E AD OF 8F	LDA	INCUMB	ODD2 BD 9E 14 PICKLED	LDA	P1NAME,X
0D51 91 F7	STA	(Z1),Y	0DD5 F0 06	BEQ	QMARK
0D53 D0 09	BNE	COTHII	0DD7 20 D2 FF	JSR	\$FFD2
0D55 AD 1B D4	LDA	rand	ODDA E8	INX	
0D58 29 07	AND	#7	0DDB D0 F5	RNF	PICKLED
0D5A 0A	ASL		UDDD A9 3F UMARK	LUA	#03 eccons
UDSB UA	ASL		0DDF 20 D2 FF	JOH	ֆΓΓ∪∪2 71
(and current job)	CTA	/71\ V	ODEA AO DA	LDX	#10
ODSC 31 F7	ICB	(Z1),1 LIDT71	NDE6 A9 2C	IDΔ	#44
0D3L 20 DC 0L COTTIII	DEC	\$02	ODE8 9D 9F 14   PP69	STA	P1NAME.X
0D63 D0 9D	BNE	ANIDLOOP	ODEB E8	INX	,p.
:	5.12		0DEC 88	DEY	
now print to screen			ODED DO F9	BNE	LPP69
0D65 A0 00 FRIIS	LDY	#0	ODEF 20 E4 FF GRENDL	JSR	\$FFE4
0D67 8C 2D 11	STY	CANNRO	ODF2 F0 FB	BEQ	GRENDL
0D6A A9 80 NEXN9	LDA	# <canstack< td=""><td>0DF4 C9 0D</td><td>CMP</td><td>#13</td></canstack<>	0DF4 C9 0D	CMP	#13
UD6C 85 F/	SIA	4- CANCTACK	ODES CO 20 DOOLS	CMD	#33 #33
0D0E A9 0F	CTA	#>UANO IAUN	0DF0 09 20 FD003	BEU	PRENIAMEE
0D70 65 F6 0D72 AD 2D 11	IDA	CANNIRO	0DFC C9 41	CMP	#65
0D72 AD 2D 11	CMP	#5	ODFE 90 EF	BCC	GRENDL
0D77 B0 EC	BCS	FRIIS	0E00 C9 5B	CMP	#91
0D79 AA	TAX		0E02 B0 EB	BCS	GRENDL
0D7A F0 06	BEQ	XFERX	0E04 E6 F8 PRENAMEE	INC	Z1 + 1
0D7C 20 DC 0E NUKKL	JSR	UPTZ1	0E06 A6 F8	LDX	Z1+1
OD7F CA	DEX	******	0E08 E0 08	CPX	#11
0D80 D0 FA	BNF	NUKKL	UEUA FU 13	REC	DD005
UD82 EE 2D 11 XFERX	INC	CANNRO	0E00 A4 F/	CTA	ZI D1NAME V
0D83 AU U3	LDI	#3 /71\ V	0EUE 99 9E 14	AND	#63
000 00 05 05 AUID	CTA	(ZI),T	0E11 29 3F 0E13 0D 05 04	STA	1029 Y
0D8C 88	DEA	INCOME, I	0E16 56 67	INC	71
· xfer attributes	DET		0E18 A9 2F	LDA	#47
ODBD DO F8	BNE	ARTIB	0E1A 9D 06 04	STA	1030.X
0D8F A0 06	LDY	#6	0E1D D0 D0	BNE	GRENDL
0D91 A2 00	LDX	#0	0E1F 20 26 0F DDOUS	JSR	DOATTRIB
OD93 B1 F7 ISIST2	LDA	(Z1),Y	0E22 20 2E 11	JSR	PRESSFIRE
0D95 9D 1B 8F	STA	STANDO,X	; name is all set	250	0501117
0D98 C8	INY		0E25 F0 95	BEQ	REDUUT
UD99 E8	INX	uc	, now translate other attributes		
UD9A EU U5	CPX	#3	, HOW TRAINSTALE OTHER ATTRIOUTES	I DA	INCUMB
, XIEI ISSUES ODGC DO ES	DVIC	CT2I2I	ODA3 8D 0A 8F ODA6 C8 ODA7 B1 F7 ; home&job ODA9 8D 0D 8F ODAC 20 E4 0E ODAC 20 E4 0E ODAC 20 E4 0E ODB2 D0 03 ; not selected ODB4 4C 6A 0D ; a candidate has been chosen ; now make up a name ODB7 20 2E 11 ODBA F0 A9 ODBC A2 00 ODB6 A2 00 ODB6 A6 F8 ODC0 A0 06 ODC1 8B ODC2 18 ODC2 18 ODC2 18 ODC2 A2 0C ODC6 AD 15 8F ODC9 CD 23 25 ODCC F0 02 ODC6 A2 0C ODD0 86 F7 ODC6 AD 15 8F ODD0 PD 20 E7 ODD0 A8 3F ODD1 A9 3F ODD4 A9 3F ODD4 A9 0A ODB6 A9 2C ODD8 A9 09 E 14 ODD6 A9 10 ODB6 A9 2C ODB8 M9 9E 14 I LPP69 ODB E8 ODB0 D6 F9 ODE7 C8 OD ODF6 F0 27 ODF8 C9 20 ODF6 F0 08 ODF0 C9 91 ODF6 F0 27 ODF8 C9 20 ODF6 F0 08 ODF0 C9 91 ODF6 F0 27 ODF8 C9 20 ODF6 F0 08 ODF0 C9 91 ODF6 F0 27 ODF8 C9 20 ODF6 F0 08 ODF0 C9 91 ODF6 F0 27 ODF8 C9 20 ODF6 F0 08 ODF0 C9 91 ODF6 F0 27 ODF8 C9 20 ODF6 F0 08 ODF0 C9 91 ODF6 F0 27 ODF8 C9 20 ODF7 C0 08 ODF0 C9 91 ODF6 F0 27 ODF8 C9 20 ODF7 C9 41 ODF9 90 EF OE00 C9 5B OE02 A0 F0 08 OE03 A0 07 OE18 A9 2F OE13 A9 D 06 OE16 E6 F7 OE18 A9 2F OE13 A9 D 06 OE16 E6 F7 OE18 A9 2F OE13 A9 D 06 OE17 A9 D 06 OE17 20 26 OF OE18 A9 2F OE13 A9 D 06 OE17 A9 D 06 OE17 C0 26 OE27 AD 0F 8F OE28 A29 0C	VND	#2
ODGC DU FO	I UV	(71) Y	0F2C 18	CIC	11 <b>L</b>
OD8C 88 ; xfer attributes OD8D D0 F8 OD8F A0 06 OD91 A2 00 OD93 B1 F7 ISIST2 OD95 9D 1B 8F OD98 C8 OD99 E8 OD99 E8 OD9A E0 05 ; xfer issues OD9C D0 F5 OD9E B1 F7 ODA0 8D 0C 8F	STA	HOMESTATE	; now translate other attributes 0E27 AD 0F 8F 0E2A 29 02 0E2C 18 0E2D 6D 10 8F	ADC	CHAR
JJ OD OO O.	•				

0E30 0A	ASL		OEC1 CA	DEX	
0E31 6D 12 8F	ADC	INTL	0EC2 BD 7F 24	LDA	REGFIRST.X
; effectiveness			0EC5 AA	TAX	
0E34 8D 16 8F	STA	CAMPEFF	0EC6 CA	DEX	
0537 AD 11 8F	LDA	SIAM	0EC7 20 F7 1B	JSR	CAMPREGK
DESK DA	ASL		0ECA 20 84 1B	JSR	TGLPARTY
0E3C 69 09	ADC	#0	0ECD AD 15 8F	LDA	PARTY
0F3F 38	SEC	#3	0ED0 OD 23 23	DNE	PONEWITH
0E3F ED 13 8F	SBC	FXPR	0ED5 20 FA 1A	ISB	DOMESMILL
; strength		<b>-</b> 711 11	0ED8 20 6C 1B	JSR	TRANSLEANCOLR
0E42 8D 17 8F	STA	STREN	0EDB 60	RTS	
0E45 AD 1B D4	LDA	rand	;		
0E48 29 1F	AND	#31	0EDC A9 10 UPTZ1	LDA	#16
0E4B 6D 17 0E	ASL	CTOCK	0EDE 18	CLC	
0E4E 60 20	ADC	SIKEN	0EDF 65 F/	ADC	Z1
: seedheaith	AUC	#32	0EE3 60	SIA	21
0E50 8D 08 8F	STA	HFAI TH	· do the attrib & stands	n:o	
0E53 AD 0F 8F	LDA	INCUMB	OFF4 20 FD 09 SETUPATTE	.ISR	MAKEMAP
0E56 29 04	AND	#4	0EE7 20 CD 15	JSR	MENUITIN
0E58 6D 13 8F	ADC	EXPR	0EEA 20 26 0F	JSR	DOATTRIB
0E5B 0A	ASL		0EED 60	RTS	
0E5C 6D 13 8F	ADC	EXPR	, 0555 40 05 DIGUELLE		
tundraicing	AUC	APPL	OFFE AS OF PICKONE	LDA	#15
0F62 8D 18 8F	QT2	FLINDR	0EF0 80 FD	SIA	\$FD #22
0E65 0A	ASI.	TONDIT	OFFA 85 FF	STA	#22 \$EE
0E66 6D 12 8F	ADC	INTL	0FF6 A9 1D	IDA	#2Q
0E69 69 30	ADC	#48	0EF8 85 A7	STA	\$A7
; seedmoney			OEFA A2 FO	LDX	# <askirt< td=""></askirt<>
0E6B 8D 09 8F	STA	MONEY	0EFC A0 10	LDY	#>ASKIRT
0EDE AD 14 8F	LDA	APPL	0EFE 20 B8 14	JSR	PRINIT
0571 09 08 0573 60 10 85	ADC	#ŏ ∩⊔∧D	0F04 F0 0D	LDA	PARTY
tv ads	ADC	CHAN	0F06 A2 0A	BEU	PX29
0E76 8D 19 8F	STA	TVADS	0F08 RD 75 14 OLLALE	LDA	PARNAME1 Y
0E79 AD 0F 8F	LDA	INCUMB	0F0B 29 3F	AND	#63
0E7C 29 07	AND	#7	0F0D 9D 9C 06	STA	1692.X
0E7E 18	CLC		OF10 CA	DEX	
0E7F 6D 12 8F	ADC	INTL	0F11 D0 F5	BNE	OLLALE
UE82 6D 11 8F	ADC	STAM	0F13 AD 15 8F PXZ9	LDA	PARTY
NERS RD 14 RE	CTA	LACTIMIZ	0F16 CD 23 25	CMP	FIRSTCAN
0F88 A2 00	IDX	#U	0F19 FU U3	REC	SELUN4
0E8A AD OC 8F	LDA	HOMESTATE	OF 15 LE 75 00	INC	#20 1001
0E8D E8 CLKHHN	INX		0F20 A0 15	LDY	#21
0E8E DD 7F 24	CMP	REGFIRST,X	0F22 20 A3 1C	JSR	SELECT
0E91 B0 FA	BCS	CLKHHN	0F25 60	RTS	
0E93 8E 20 8F	STX	CURREG	<b>;</b>		
0E90 0E 0B 0F 0E00 8E 21 8E	SIX	LASTREGI	; ** doattrib (sr for printing ge	neral info	about candidate)
· all done creating player 1	SIX	HUMENEGI	OF20 OF 36 OF DUALING	LDX	PARIY
: now do the other candidate			Chan (dems) or ted (tebs)	LDA	PHICU,X
0E9C 20 84 1B	JSR	TGLPARTY	0F2C 20 D2 FF	ISB	\$FFD2
0E9F AD 15 8F	LDA	PARTY	0F2F A9 11	LDA	#17
0EA2 CD 23 25	CMP	FIRSTCAN	0F31 85 FD	STA	\$FD
0EA5 FO 03	BEQ	DONEWITH	0F33 A9 19	LDA	#25
DEA/ 40 F1 UC	JMP	PICKCAND	0F35 85 FE	STA	\$FE
UEAN AD UF BF DUNEWITH	LUA	INCOMR	0F37 A9 00	LDA	#0
OFAF AD 81 AF	STA	CANCIACK T 1	0F39 83 A/	SIA	\$A/
; initial campaion	JIA	UNIVOINUNT I	0F3D AC 31	LDV LDX	# <alinid< td=""></alinid<>
0EB2 20 F3 1B	JSR	CAMPONCE	0F3F 20 B8 14	JSR	PRINIT
0EB5 A9 00	LDA	#0	0F42 A9 1F	LDA	#31
; and the home region			; blue color		
UEB7 8D 81 8F	STA	CANSTACK + 1	0F44 20 D2 FF	JSR	\$FFD2
UEDA AL 21 81 NERD RD 75 24	LDX	HUMEHEG!	0EC1 CA 0EC2 BD 7F 24 0EC5 AA 0EC6 CA 0EC7 20 F7 1B 0ECA 20 84 1B 0ECD AD 15 8F 0ED0 CD 23 25 0ED3 D0 D5 0ED5 20 FA 1A 0ED8 20 6C 1B 0ED6 80  CEDC A9 10 UPTZ1 0ED6 18 0EDF 65 F7 0EE1 85 F7 0EE3 60  CEDC A9 10 UPTZ1 0ED6 80  CEDC A9 10 UPTZ1 0ED7 0E1 85 F7 0EE3 60  CED 60 F7 0EE4 80 F7 0EE5 20 ED 09 SETUPATTF 0EE6 A9 1D 0EF6 A9 1D 0EF7 A0 10 0EF6 A9 1D 0EF7 A0 10 0EF6 A9 1D 0EF8 A9 F7 0EFA A2 F0 0EFC A0 10 0EF6 A9 1D 0EF8 A9 F7 0EFA A2 F0 0EFC A0 10 0EF6 A9 1D 0EF8 B5 FD 0F70 A7 0EFA A2 F0 0EF6 A9 1D 0EF8 B5 FD 0EF6 A9 1D 0EF8 B5 FD 0EF6 A9 1D 0EF8 B5 FD 0EF6 A9 1D 0EF8 B7 14 0F10 AD 15 8F 0F04 F0 0D 0F10 CA 0F11 D0 F5 0F13 AD 15 8F 0F04 F0 0D 0F10 CA 0F11 D0 F5 0F13 AD 15 8F 0F13	LDA	#20
0FC0 A8	LDA TAV	ncurino1,X	UF49 85 FU 0E4R A0 10	SIA	\$FD
JESU NU	ini		UF4D A9 19	LUA	#25

GF40 B5 FE						
GFB 43 09   GFB 40 15 8   CHECKREYS   LD	0F4D 85 FE	STA	\$FE	0FD9 D0 F6	BNE	DOREPTIL
OFF3 82 AB         LDX         #         APAINS         OFED AZ DA         DA         DA         DA         PRINAMELY         DA         DA         PRINAMELY         DA         DA         PRINAMELY         DA         AUD         PRINAMELY         DA         AUD         PRINAMELY         DA         AUD         PRINAMELY         DA         AUD         PRINAMELY         DA         CPC         DA         AUD         DA         AUD         PRINAMELY         DA         CPC         DA         AUD         DA         AUD         PRINAMELY         DA         DA <td>0F4F A9 09</td> <td>LDA</td> <td>#9</td> <td>OFDB AD 15 8F CHECKREPS</td> <td>LDA</td> <td>PARTY</td>	0F4F A9 09	LDA	#9	OFDB AD 15 8F CHECKREPS	LDA	PARTY
DFS A0 10 14   JSR PRINTT	0F51 85 A7	STA	\$A7	0FDE F0 20	BEQ	ENDOFII
Fig. 20	0F53 A2 AB	LDX	# <uaniss #<caniss< td=""><td>OFFO RD 75 14 PARNALL</td><td>I DA</td><td>PARNAME1 X</td></caniss<></uaniss 	OFFO RD 75 14 PARNALL	I DA	PARNAME1 X
Print ist of issues	0F57 20 R8 14	JSR	PRINIT	0FE5 29 3F	AND	#63
0FSA CA 13         DOX         H19         OFEA CA         DEX           0FSC EB         ONSTXL         LDV         W50F         CEC         CFE 98         PARNAU           0FSD A0 0F         CDV         CDV         CFE 98         FD         STA           0FSF 18         CDV         CFF 98         FD         STA         W22           0F60 20 FF         LDX         W831         OFF5 89         99         LDA         W92           0F65 BA         PRLYWH         LDX         W831         OFF5 89         99         LDA         W99           0F65 BA         PRLYWH         SFFD2         OFF9 80         10         LDA         W99           0F64 BC 037         CPX         H\$37         CFFD 20         BL 1         LDX         W-RACNINS           0F64 BC 00 FF         SFC         DFY         M\$57         CFFD 20         BL 1         LDX         W-RACNINS           0F62 BA         PRLYWH         1002 AD 40         ENDORTI         LDX         W-RACNINS         PRINT           0F62 BA         DFY         JSR         SFFFO         1007 AD 30         OFA         ASA           0F62 BA         DFY         JSR         SFFFO	; print list of issues	00.1		0FE7 9D F8 06	STA	1784,X
OFFSO AD O	0F5A A2 13	LDX	#19	OFEA CA	DEX	P. P
CLC	OF5C E8 ONSTXL	INX	<b>"00</b> 5	OFEB DO F5	RNF	PARNAU #20
	OFSD AU UF	LDA	#\$0F	OFFE 85 FD	STA	\$FD
DFF0	not to print the sliding scale	OLO		0FF1 A9 16	LDA	#22
Fig. 2	0F60 20 F0 FF	JSR	\$FFF0	0FF3 85 FE	STA	\$FE
0F65 2D 2F FROM TXA  0F66 2D 2F FROM TXA  0F69 E8  0F69 E8  0F70 CPX  #\$37  0F67 E9 D 2D	0F63 A2 31	LDX	#\$31	0FF5 A9 09	LDA	#9
Fig. 20   102   11	0F65 8A PRLYWH	TXA	*****	0FF7 85 A7	SIA	\$A/
Prest   Pre	0F66 20 D2 FF	JSR	\$FFD2	OFFR AC UZ	LDX	# <huainiss #~RCANISS</huainiss 
Spirit 1-6   Sp	0F64 F0 37	CPX	#\$37	0FFD 20 BB 14	JSR	PRINIT
DFEC   DO F7   SINE   PRLYWH   1002 AO AO   LDDY   #160	or on 20 37	OI A	<i>"</i> 401	1000 A2 04 ENDOFIT	LDX	#4
CFGF 20 FF   JSR   SFFO   1007 69 30   ORA   #\$30	0F6C D0 F7	BNE	PRLYWH	1002 A0 A0	LDDY	#160
Fore   10   10   10   10   10   10   10   1	0F6E 38	SEC		1004 BD 10 8F AYYI	LDA	CHAR,X
Serven is almost set up	0F6F 20 F0 FF	JSR	\$FFF0	1007 09 30	UKA	#\$30
OFFA DO C   STANDO, X	0F/2 EU 18	CPX	#\$18	; attribute #S	QTA	1831 V
No.   No.	OF74 DO F6	RNF	ONSTXI	1000 39 27 07	TYA	1001,1
OFFO DA	0F76 AD 0C 8F	LDA	HOMESTATE	100D 38	SEC	
OFTA AA	0F79 0A	ASL		100E E9 28	SBC	#40
OFTR 29 3F	OF7A AA	TAX		1010 A8	TAY	
OFFO   December   De	0F7B BD DC 21	LDA	STNAME,X	1011 CA 1012 10 E0	DEX	AVVI
1016 A0 A0	0F/E 29 3F	AND STA	#03 1707	1012 10 FO 1014 A2 04	INX	#4
0F84 BD DC 21	NERS ER	INX	1707	1016 AO AO	LDY	#160
First   29 3F	0F84 BD DC 21	LDA	STNAME,X	1018 98 STNR0	TYA	
0F89 80 AC 06	0F87 29 3F	and	#63	1019 18	CLC	
0F8E A0 02	0F89 8D AC 06	STA	1708	101A 7D 1B 8F	ADC	STANDO,X
0F90 18	0F8C A2 12	LDX	#18	101D A8	IAY	1838 V
0F91 20 F0 FF	0F8E AU UZ	CLC	#2	1012 09 22 07	ORA	#\$40
0F94 AE 15 8F	0F91 20 F0 FF	JSR	\$FFF0	; issues		
0F97 BD 28 25	0F94 AE 15 8F	LDX	PARTY	1023 99 2E 07	STA	1838,Y
0F9A 20 02 FF	0F97 BD 28 25	LDA	PRTCO,X	1026 98	TYA	
0F90 AC 00 AC 00 AC 0F	0F9A 20 D2 FF	JSR	\$FFD2	1027 38 1039 E0 39	SEC	#40
0FA2 A0 04	OEAO 20 OE	EDX BMI	SDECIING	1026 E9 26 1024 29 FR	AND	#\$F8
0FA4 BD 31 10 LSTLO LDA TITLES, X 102D CA DEX OFA7 20 D2 FF JSR \$FFD2 102E 10 E8 BPL STNR0  0FAA E8 INX 1030 60 RTS  0FAA E8 INX 1030 60 RTS  0FAC D0 F6 BNE LSTLO 1031 53 45 4E TITLES ASC "SEN GOV REP RE V MS DR> V =	0FA0 30 0L 0FA2 A0 04	LDY	#4	102C A8	TAY	# <b>4.</b> 5
0FA7 20 D2 FF	0FA4 BD 31 10 LSTLO	LDA	TITLES,X	102D CA	DEX	
OFAA E8         INX         1030 60         HIS           0FAB 88 OFF         DEY         ; data tables for these routines           0FAC D0 F6         BNE LSTLO         1031 53 45 4E TITLES         .ASC         "SEN GOV REP RE V MS DR> V ==           0FAE F0 0D         BEO CBMM         1031 53 45 4E TITLES         .ASC         "SEN GOV REP RE V MS DR> V ==           0FAE F0 0D         SPECIINS LDX         HO         P GEN"         P GEN"           0FB2 BD E4 10 PRESLOPH LDA ERPP,X         1050 20         .BYTE 32         32           0FB5 F0 06         BEO CBMM         1051 1B 2C 00 ATTRIB         .BYTE 27,44,0,27,44,0         SFFD2           0FB7 20 D2 FF         JSR SFFD2         1057 FF         .BYTE 255         255           0FB8 B B         INX         1058 2C 44 45         .ASC         "DEMOCRATIC CAN DIDATE"           0FBB D F5         BNE         PRESLOPH         1074 00 FF         .BYTE 0,255           0FBB 85 F7         STA Z1         1076 9C 2F 20 ASC         .BYTE 0,255           0FC1 A9 14         LDA #>PINAME         107F 00 FF         .BYTE 0,255           0FC3 85 F8         STA Z1+1         1081 2F 20 53         .ASC "(FUR) / CHAR X"           0FC5 A0 00         LDY #0         1089 00 FF         .BYTE 0,255 </td <td>0FA7 20 D2 FF</td> <td>JSR</td> <td>\$FFD2</td> <td>102E 10 E8</td> <td>BPL</td> <td>STNR0</td>	0FA7 20 D2 FF	JSR	\$FFD2	102E 10 E8	BPL	STNR0
0FAC D0 F6	OFAA E8	INX		1030 60	HIS	
0FAE F0 0D	OEAC DO EE	RNE	UTSI	1031 53 45 4F TITLES	ASC	"SEN GOV REP RE
OFBO A2 00 SPECINS	OFAE FO OD	BEQ	CBMM	1001 00 10 12 111220		V MS DR> V=
0FB2         BC 4 10         PRESLOPH         LDA         ERPP_X         1050 20         BYTE         32           0FB7         20 D2 FF         JSR         \$FF02         1057 FF         BYTE         25           0FBA         E8         INX         1058 2C 44 45         ASC         "DEMOCRATIC CAN DIDATE"           0FBB         D0 F5         BNE         PRESLOPH         D10ATE         D10ATE           0FBB         ASC         CBMM         LDA         # <p1name< td="">         1074 00 FF         BYTE         0.255           0FBF         SF         STA         Z1         1076 9C 2F 20         ASC         "{PUR}/ CHAR X"           0FC1 A9         14         LDA         #&gt;P1NAME         107F 00 FF         BYTE         0.255           0FC3 85 F8         STA         Z1 + 1         1081 2F 20 53         ASC         "{PUR}/ CHAR X"           0FC5 A0 00         LDY         #0         1089 00 FF         BYTE         0,255           0FC7 AD 15 8F         LDA         PARTY         108B 2F 20 49         ASC         "/ INIL X"           0FCA CD 23 25         CMP         FIRSTCAN         1093 00 FF         BYTE         0,255           0FCD F0 0C         <td< td=""><td>0FB0 A2 00 SPECIINS</td><td>LDX</td><td>#0</td><td></td><td></td><td>P GEN"</td></td<></p1name<>	0FB0 A2 00 SPECIINS	LDX	#0			P GEN"
0FB5 F0 06 BEQ CBMM 1051 18 2C 00 A1 HIB BYTE 274,40,27,44,0 OFB7 20 D2 FF JSR SFFD2 1057 FF BYTE 255 0FBA E8 INX 1058 2C 44 45 ASC "DIDATE" 0FBB D0 F5 BNE PRESLOPH 0FBD A9 9E CBMM LDA # <p1name #="" 0.255="" 00="" 0fc1="" 1074="" 14="" a9="" byte="" ff="" lda="">P1NAME 1076 9C 2F 20 ASC "{PUR}/ CHAR X" 0FC1 A9 14 LDA #&gt;P1NAME 107F 00 FF BYTE 0.255 0FC3 85 F8 STA 21 1081 2F 20 53 ASC "{PUR}/ CHAR X" 0FC5 A0 00 LDY #0 1089 00 FF BYTE 0.255 0FC5 A0 01 LDA PARTY 1088 2F 20 49 ASC "/ INTL X" 0FC4 CD 23 25 CMP FIRSTCAN 1093 00 FF BYTE 0.255 0FC5 F0 0C LDY #12 1095 2F 20 45 ASC "/ EXPR X" 0FC5 A0 0C LDY #12 1095 2F 20 45 ASC "/ EXPR X" 0FC7 A0 15 BF LDA PARTY 1088 2F 20 49 ASC "/ INTL X" 0FC8 A0 0C LDY #12 1095 2F 20 45 ASC "/ EXPR X" 0FC9 F0 OC LDY #12 1095 2F 20 41 ASC "/ EXPR X" 0FC9 F0 D0 D0 FF BYTE 0.255 0FD1 B1 F7 D0REPTIL LDA (Z1).Y 109F 2F 20 41 ASC "/ APPL X" 0FD3 F0 06 BEQ CHECKREPS 10A7 00 00 BYTE 0.0.0.0 0FD5 20 D2 FF JSR SFFD2 10AB FF CANISS BYTE 255 0FD8 C8 BYTE 255 0FD8 C8 BYTE 255 0FD8 C8 BYTE 255 0FD8 CANISS BYTE 255 0FD8 C8 BYTE 255</p1name>	0FB2 BD E4 10 PRESLOPH	LDA	ERPP,X	1050 20	.BYTE	32
OFBA E8	0FB5 F0 06	BEQ	CBMM	1051 1B 2C 00 ALIRIB	BYTE	27,44,0,27,44,0
OFBD D0 F5         BNE         PRESLOPH         DIDATE	OLDY EO	JSK	\$FF02	1057 FF 1058 2C 44 45	ASC	" DEMOCRATIC CAN
0FBD A9 9E         CBMM         LDA         # <p1name< th="">         1074 00         FF         .BYTE         0.255           0FBF 85 F7         STA         Z1         1076 9C         Z2 20         ASC         "{PUR}/ CHAR X"           0FC1 A9 14         LDA         #&gt;P1NAME         107F 00         FF         .BYTE         0.255           0FC3 85 F8         STA         Z1+1         1081 2F 20         53         ASC         "/ STAM X"           0FC5 A0 00         LDY         #0         1089 00         FF         .BYTE         0.255           0FC7 AD 15 8F         LDA         PARTY         108B 2F 20 49         ASC         "/ INTL X"           0FCA CD 23 25         CMP         FIRSTCAN         1093 00         FF         .BYTE         0.255           0FCD F0 02         BEO         DOREPTIL         1095 2F 20 45         ASC         "/ EXPR X"           0FCD F0 02         BEO         DOREPTIL         1095 2F 20 45         ASC         "/ EXPR X"           0FCD F0 02         BEQ         LDY         #12         109D 00         FF         .BYTE         0.255           0FD1 B1 F7         DOREPTIL         LDA         (Z1),Y         109F 2F 20 41         ASC         "/ APPL X"<!--</td--><td>OFRR DO F5</td><td>BNF</td><td>PRESLOPH</td><td>1030 20 44 43</td><td>.noo</td><td>DIDATE"</td></p1name<>	OFRR DO F5	BNF	PRESLOPH	1030 20 44 43	.noo	DIDATE"
0FBF         85         F7         STA         Z1         1076         9C 2F         20         ASC         "(PUR)/ CHAR X"           0FC1         A9         14         LDA         #>P1NAME         107F         00 FF         BYTE         0,255           0FC3         85         F8         STA         Z1+1         1081         2F         20         33         ASC         "/ STAM X"           0FC5         A0         00         LDY         #0         1089         00         FF         BYTE         0,255           0FC7         AD         15         BF         LDA         PARTY         1088         2F         20         49         ASC         "/ INIT. X"           0FCA         CD         23         25         CMP         FIRSTCAN         1093         00         FF         BYTE         0,255           0FCD         F0         DC         BEQ         DOREPTIL         1095         2F         20         45         ASC         "/ EVPR X"           0FD1         BT         F         DC         BEQ         CHECKREPS         10A7         00         00         BYTE         0,00         0           0FD3	OFBD A9 9E CBMM	LDA	# <p1name< td=""><td>1074 00 FF</td><td>.BYTE</td><td>0,255</td></p1name<>	1074 00 FF	.BYTE	0,255
OFC1 A9 14         LDA         #>P1NAME         107F 00 FF         .BY1E 0,255           OFC3 85 F8         STA         21+1         1081 2F 20 53         .ASC "/ STAM X"           OFC5 A0 00         LDY         #0         1089 00 FF         .BYTE 0,255           OFC7 AD 15 8F         LDA         PARTY         1088 2F 20 49         .ASC "/ INTL X"           OFCA CD 23 25         CMP         FIRSTCAN         1093 00 FF         .BYTE 0,255           OFCD F0 02         BEQ         DOREPTIL         1095 2F 20 45         .ASC "/ EXPR X"           OFCF A0 0C         LDY         #12         109D 00 FF         .BYTE 0,255           0FD1 B1 F7         DOREPTIL         LDA (Z1),Y         109F 2F 20 41         .ASC "/ APPL X"           0FD3 F0 06         BEQ         CHECKREPS         10A7 00 00         .BYTE 0,00,0         .BYTE 0,00,0           0FD5 20 D2 FF         JSR         SFD2         10AB FF         CANISS         .BYTE 255           0FD8 C8         INY         10AC 1F 55 4E         .ASC         "{BLU}UNEMP"	0FBF 85 F7	STA	Z1	1076 9C 2F 20	.ASC	"{PUR}/ CHAR X"
0FC5 A0 00 LDY #0 1089 00 FF BYTE 0,255 0FC7 AD 15 8F LDA PARTY 108B 2F 20 49 .ASC "/ INTL X" 0FCA CD 23 25 CMP FIRSTCAN 1093 00 FF .BYTE 0,255 0FCD FO 02 BEQ DOREPTIL 1095 2F 20 45 .ASC "/ EXPR X" 0FCF A0 0C LDY #12 109D 00 FF .BYTE 0,255 0FD1 B1 F7 DOREPTIL LDA (Z1),Y 109F 2F 20 41 .ASC "/ APPL X" 0FD3 F0 06 BEQ CHECKREPS 10A7 00 00 00 0FD5 20 D2 FF JSR SFFD2 10AB FF CANISS BYTE 0,0.0,0 0FD5 20 D2 FF JSR SFFD2 10AB FF CANISS BYTE 255 0FD8 C8 INY	0FC1 A9 14	LDA	#>P1NAME	107F 00 FF	BYIE	0,255
Formal   F	0FC5 AO OO	SIA	∠1+1 #0	1081 2F 2U 33 1089 00 FF	.AOU RYTF	/ STAIN A 0.255
0FCA CD 23 25         CMP         FIRSTCAN         1093 00 FF         .BYTE         0,255           0FCD F0 02         BEQ         DOREPTIL         1095 2F 20 45         .ASC         "/ EXPR X"           0FCF A0 0C         LDY         #12         109D 00 FF         .BYTE         0,255           0FD1 B1 F7         DOREPTIL         LDA         (Z1),Y         109F 2F 20 41         .ASC         "/ APPL X"           0FD3 F0 06         BEQ         CHECKREPS         10A7 00 00 00         .BYTE         0,0.0           0FD5 20 D2 FF         JSR         \$FFD2         10A8 FF         CANISS         .BYTE         255           0FD8 C8         INY         10AC 1F 55 4E         .ASC         "{BLU}UNEMP"	0FC7 AD 15 8F	IDA	PARTY	108B 2F 20 49	ASC	"/ INTL X"
0FCD F0 02         BEQ         DOREPTIL         1095 2F 20 45         .ASC "/ EXPR X"           0FCF A0 0C         LDY #12         109D 00 FF         .BYTE 0,255           0FD1 B1 F7         DOREPTIL         LDA (Z1),Y         109F 2F 20 41         .ASC "/ APPL X"           0FD3 F0 06         BEQ CHECKREPS         10A7 00 00 00         .BYTE 0,00,0         .BYTE 0,00,0           0FD5 20 D2 FF         JSR SFFD2         10A8 FF CANISS         .BYTE 255         .BYTE 255           0FD8 C8         INY         10AC 1F 55 4E         .ASC "{BLU}UNEMP"	0FCA CD 23 25	CMP	FIRSTCAN	1093 00 FF	.BYTE	0,255
OFCF A0 0C         LDY         #12         109D 00 FF         BYTE         0,255           0FD1 B1 F7         DOREPTIL         LDA         (21),Y         109F 2F 20 41         ASC         "/ APPL X"           0FD3 F0 06         BEQ         CHECKREPS         10A7 00 00 00         BYTE         0,0.0,0           0FD5 20 D2 FF         JSR         \$FFD2         10A8 FF         CANISS         BYTE         255           0FD8 C8         INY         10AC 1F 55 4E         ASC         "{BLU}UNEMP"	0FCD F0 02	BEQ	DOREPTIL	1095 2F 20 45	ASC	"/ EXPR X"
OFD3 F0         DOHEPHIL         LUA         (21),Y         109F 2F 20 41         .ASC         APPL X           0FD3 F0         06         BEQ         CHECKREPS         10A7 00 00         0         BYTE         0,0,0,0           0FD5 20         D2 FF         JSR         \$FFD2         10A8 FF         CANISS         BYTE         255           0FD8 C8         INY         10AC 1F 55 4E         ASC         "{BLU}UNEMP"	OFCF AO OC	LDY	#12 (71) V	109D 00 FF	BYIE	U,255
0FDS 20 D2 FF	OFD3 ED DE	LDA REO	(Z I), Y	109F 2F 20 41 10A7 00 00 00	.ASU RYTF	) AFFL A
OFD8 C8 INY 10AC 1F 55 4E .ASC "{BLU}UNEMP"	0FD5 20 D2 FF	JSR	\$FFD2	10AB FF CANISS	BYTE	255
	OFD8 C8	INY	****==	10AC 1F 55 4E	.ASC	"{BLU}UNEMP"

10B2 00 FF		.BYTE	0,255 "POVTY" 0,255 "AGRIC" 0,255 "EDUCN" 0,255 "DFENS" 0,0,0,0 255 "CRIME" 0,0,0,0 "(BLU) INFLN" 0,255 "CRIME" 0,0,0,0	; another week p	asses		
10B4 50 4F 56		.ASC	"POVTY"	1182 EE 24 25	asses	INC	WEEKNO
10B9 00 FF		.BYTE	0,255	1185 AD 24 25		LDA	WEEKNO
10BB 41 47 52		.ASC	"AGRIC"	1188 C9 0A		CMP	#10
10C0 00 FF 10C2 45 44 55		BALE	U,255	118A DU U1		BNF	RECON
1002 43 44 33 1007 00 FF		RYTE	0 255	, main its out of	campaign	RTS	
10C9 44 46 45		ASC	"DFFNS"	118D 20 FD 09	RECON	JSR	MAKEMAP
10CE 00 00 00		BYTE	0.0.0.0	1190 20 CD 15	HEOON	JSR	MENUITIN
10D2 FF	RCANISS	.BYTE	255	1193 20 26 0F		JSR	DOATTRIB
10D3 1F 49 4E		.ASC	"{BLU}INFLN"	1196 A9 07		LDA	#7
10D9 00 FF		.BYTE	0,255	1198 8D 00 8F		STA	Day
10DB 43 52 49 10E0 00 00 00 10E4 9D 50 52		ASC	0.255 "CRIME" 0.0,0,0 " {LEFT} PRESIDENT 32,0	; (			
10E4 9D 50 52	FRPP	ASC.	U,U,U,U "{  FFT\PRESIDENT	(main menu is	ON SCIEEN HOW	JSR	MENUMAIN
.021 00 00 02	L	.Au	" (CCL ) / NEOIDEIN	119F A2 05	GOAGAINO	LDX	#5
10EE 20 00		.BYTE	32,0	11A0 A0 OC	00.10.110	LDY	#12
i				11A0 A0 0C ; (cursor on scree 11A2 20 A3 1C 11A5 AA 11A6 D0 03	en		
10F0 FF	ASKIRT	.BYTE	255	11A2 20 A3 1C		JSR	SELECT
10F1 97 50 4C 10FB 00 FF		.ASC	" (<4>)PLAYER [1"	11A5 AA	NQ0	TAX	
10FD 44 45 4D		.BYTE	U,200 "DEMOCRATIC"	11Ab DU U3	00 — niak a ata	BNE	NQ1
1107 00 FF		RYTE	0.255	1148 4C 03 12	υυ≔ μιακ a sta	IMP	CAMPAIGN
1109 43 4F 4E		ASC	"CONVENTION"	11AB CA	NQ1	DFX	CAMITAIGN
1113 00		.BYTE	0	11AC D0 03		BNE	NQ2
1114 OA A6 OO		.BYTE	10,166,0,5,32,0,255	; (tv ads at 400			
111B 1E 20 2F		.ASC	"{GRN} / NO"	11AE 4C 93 12		JMP	TVDAY
1121 00 FF		RAIF	0,255	11B1 CA	NQ2	DEX	
1123 20 2F 20 1129 00 00 00		RVTE	7 165	: (fundrain at line	600	BNE	NQ3
:		, .DITE	0,0,0,0	11R4 4C C5 12	600 NQ3	IMP	FUNDRAIT
112D 00		.BYTE	0	11B7 CA	NO3	DEX	TONDINI
; firebutton to con				11B8 D0 03		BNE	NQ4
112E AD 05 04	PRESSFIRE	LDA	1029	; (rest routine at	B00		
1131 48		PHA	<b>"</b>	11BA 4C EF 12	NQ4	JMP	REST
1132 A9 00 1134 85 A2		LDA STA	#U	11BD CA	NQ4	DEX	NOT
1136 85 C6		STA	ውስረ ቁርፍ	1100 20 20 10		JSR	NQ5 MAPMAGIC
1138 A9 20		LDA	#\$20	: (goto the man r	outine	JON	WAFWAGIC
113A C5 A2	DELPOL	CMP	\$A2	11C3 4C 9B 11	000	JMP	DEFAULT
113C D0 FC		BNE	DELPOL	11C6 CA	NQ5	DEX	
113E A2 17		LDX	#23	11C7 D0 08		BNE	NQ7
1140 BD 62 11 1143 29 3F		LDA	FIREMSG,X	11C9 20 16 13		JSR BNE	POLLSTER
1145 9D 04 04		and Sta	#03 1028 Y	(noll routine at	1200	BNE	DEFAULT
1148 CA		DEX	1020,7	11CF 4C 03 12	1200	IMP	CAMPAIGN
1149 10 F5		BPL	PRINLU	11D1 CA	NQ7	JMP Dex Bne	O/ UVII / UQI V
114B 20 1A 1F		JSR	IJKL	11D2 D0 0E		BNE	NQ8
		LDA	JB	11D4 20 2E 11		JSR	PRESSFIRE
1151 F0 F8 1153 A2 17		BEQ LDX	LPPF	11D7 F0 C5	DECETORS	BEQ	GOAGAINQ
1155 68		Pi A	#23	11D9 AD 08 8F	RESETREG	STA	Lastregi Curreg
1156 9D 04 04	RESTRM	PLA STA	1028.X	: reconsider/try a	nain	SIM	CONNEG
1159 CA		DEX	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11DF 4C 8D 11	gain NQ8	JMP	RECON
115A 10 FA		BPL	RESTRM	11E2 CA	NQ8	DEX	
115C AD 6B 1F		LDA	JB	11E3 F0 03		BEQ	NQEND
115F 29 10		AND	#16	11E5 4C 9B 11	1000	JMP	DEFAULT
1161 60 1162 34	FIREMSG	RTS	"{LEFT}PRESIDENT "32,0 255 "[<4>]PLAYER [1" 0,255 "DEMOCRATIC" 0,255 "CONVENTION" 0 10,166,0,5,32,0,255 "{GRN} / NO" 0,255 "/ YES" 0,0,0,0 0 1029 #0 \$A2 \$C6 #\$20 \$A2 DELPOL #23 FIREMSG,X #63 1028,X PRINLU LIKL JB LPPF #23 1028,X RESTRM JB LPPF #23 1028,X RESTRM JB #16 58 "FIREBUTTON TO CO NITINI IE"	; (travel routine at 11E8 4C C8 13	NOEND	IAAD	TD A/CI
1162 3A 1163 46 49 52	INCIVIOU	ASC	"FIRERUTTON TO CO	1100 40 00 13	NUEND	JIVIP	TRAVEL
		.,	58 "FIREBUTTON TO CO NTINUE" 58	; campaign			
1179 3A		.BYTE	58	11EB A2 00	OREET	LDX	# <regumen< td=""></regumen<>
1						LDA	#>REGUMEN
; bkcm.control				11EF 18		CLC	
this is the main	routing for sale	otina co	npaign stops and	11F0 6D 20 8F		ADC	CURREG
, this is the main playing the	TOUGHE TO SELE	curry car	nparyn stops and	11F4 A9 00		tay Lda	#0
117A AD 23 25		LDA	FIRSTCAN	11F6 85 FD		STA	\$FD
117D CD 15 8F		CMP	PARTY	11F8 A9 0E		LDA	#14
1180 D0 0B		BNE	RECON	11FA 85 FE		STA	\$FE

11FC A9 1E 11FE 85 A7	LDA	#30 \$A7	1288 CE 00 8F 128B D0 03	DEC	DAY
11FE 85 A7	STA	\$A7	128B D0 03	BNE	NEXIIX
; menu for current region/imply	TIS IAAD	DDINIT	1280 40 07 14	IMP	FVALEND
1200 40 DO 14	ISR	ORFET	1290 4C 06 12 NEXIIX	JMP	RESLG
1205 20 EB 11 GAWIAIGN	IDX	CURREG	:	<b></b>	
1209 BD 7F 24	LDA	REGFIRST,X	tv ads routine		
120C CA	DEX		; \$f0 = tv ads		
120D 38	SEC		1293 AE 00 8F TVDAY	LDX	DAY
120E FD 7F 24	SBC	REGFIRST,X	1296 A9 FU	LUA CTA	#\$FU
1211 48	ADC	μo	1290 9D 00 0F	STX	SEC.
1212 09 03	TAY	#3	129D 20 FA 13	JSR	ITINPLOT
1215 A2 03	i DX	#3	12A0 A9 81	LDA	#129
1217 20 A3 1C	JSR	SELECT	12A2 20 D2 FF	JSR	\$FFD2
121A C9 00	CMP	#0	12A5 A2 00	LDX	#0
121C D0 07	BNE	CRR	12A7 BD 70 15 TVROUL	LDA	REGLCL,X
121E 20 2B 1D	JSR	MAPMAGIC	12AA FU Ub	ICD	1 V 0 /
1221 68	PLA	DEGI C	12AC 20 D2 FF 12AF FR	INX	φi i UZ
1222 40 00 12 1225 85 02 CRR	STA	\$02	12B0 D0 F5	BNE	TVROUL
1227 68	PLA	<b>402</b>	12B2 AD 20 8F TV67	LDA	CURREG
1228 C5 02	CMP	\$02	12B5 09 30	ORA	#\$30
122A BO 03	BCS	CRR2	12B7 20 D2 FF	JSR	\$FFD2
122C 4C 9B 11	JMP	DEFAULT	12BA CE 00 8F	DEC	DAY TV60
122F C6 02 CRR2	DEC	\$UZ CLIDDEC	12BU UU U3 12BE AC 07 14	IMP	FVALEND
1231 AE 2U OF 1234 CA	DEX	CONNEC	12C2 4C 9B 11 TV68	JMP	DEFAULT
1235 BD 7F 24	LDA	REGFIRST.X	:	•	
1238 18	CLC		; fundrais adds money (bee	f up later)	
; state number in .a			; \$ff = fundraising needed (ii	n itinerary)	DAY
1239 65 02	ADC	\$02	12C5 AE 00 8F FUNDHAII	LDX	UAY #¢EE
123B AE 00 8F	LUX	DAY	12C0 A9 FF 12C4 QD 00 RF	STA	DAY X
123E 9D 00 OF 1241 85 FR	STA	SFR	12CD 86 FC	STX	\$FC
: state# & day	01/1	QI D	12CF 20 FA 13	JSR	ITINPLOT
1243 86 FC	STX	\$FC	12D2 A9 9A	LDA	#154
1245 20 FA 13	JSR	itinplot	12D4 20 D2 FF	JSR	\$FFD2
1248 A9 1E	LDA	#30	12D7 A2 00	LDX	#U
124A 20 D2 FF	JSR	\$FFD2	13DC EU UE	DEO.	REGLUIVI,A
124U AD FB 124E 0A	ACI	ФГD	12DE 20 D2 FF	JSR	\$FFD2
1250 AA	TAX		12E1 E8	INX	*
1251 BD DC 21	LDA	STNAME,X	12E2 D0 F5	BNE	FUNN6
; green, 1st letter			12E4 CE 00 8F ENFUN6	DEC	DAY
1254 20 D2 FF	JSR	\$FFD2	12E7 D0 03	RNF	ENFUN/
1257 BD DD 21	LUA	SINAME + 1,X	12E9 4C 07 14	JIVIF	DEFALIT
125A 20 D2 FF 125D AQ 20	I DA	#32	:	OIVII	DEIMOEI
: 2nd letter, space	LDI		rest		
125F 20 D2 FF	JSR	\$FFD2	12EF AE 00 8F REST	LDX	DAY
1262 BD 00 78	LDA	STEVOTE,X	12F2 A9 00	LDA	#0
1265 48	PHA		12F4 9D 00 8F	SIA	DAY,X
1265 AA 1267 AO OO	IAX	#0	12F/ 00 FU 12FQ 20 FA 13	JSR	ITINPI OT
nrint # of electoral votes	LUA	πu	12FC A9 9B	LDA	#155
1269 20 CD BD	JSR	\$BDCD	12FE 20 D2 FF	JSR	\$FFD2
126C 68	PLA		1301 A9 5A	LDA	#90
126D C9 0A	CMP	#10	1303 A2 05	LDX	#5 *FFD0
126F B0 05	BCS	CREGI	1305 20 D2 FF ZPLOT	JSK	\$FFUZ
12/1 A9 20 1272 20 D2 EE	LUA	#32 \$FFD2	1300 GA 1300 DO FA	RNE	7PLOT
1276 AQ 20 CREGI	I DA	#32	130B CE 00 8F	DEC	DAY
1278 20 D2 FF	JSR	\$FFD2	130E DO 03	BNE	ENRSTX
127B A9 98	LDA	#152	310 4C 07 14	JMP	EVALEND
127D 20 D2 FF	JSR	\$FFD2	; should be evalend 11	13.45	DEEALUT
1280 AD 20 8F	LDA	CURREG	1313 4C 9B 11 ENRSTX	JMP	UEFAULI
, Illelia to Current region/illelia (1) (200 4C 8B 14 1203 20 EB 11 1209 BD 7F 24 1200 CA 200 38 1200 CA 200 38 1211 48 211 69 03 1211 48 211 69 03 1211 20 EF 20 2B 1D 1211 68 1212 66 12 1212 68 1222 4C 06 12 1222 6C 06 12 1222 AB 00 33 122C 4C 9B 11 1221 6B 1221 AC 20 2C CRR 1227 68 1228 CS 02 1224 BO 03 122C 4C 9B 11 122F C6 02 CRR 1231 AE 20 8F 1234 AC 20 1231 AE 20 8F 1234 BB 15 18 18 18 18 18 18 18 18 18 18 18 18 18	JCD	#Ф3U \$FFD2	1316 AD DO RE POLLSTEE	IDA	MONFY
1500 50 05 11	0011	WIT DE	1288 CE 00 8F 128B D0 03  128D 4C 07 14 1290 4C 06 12  128D 4C 06 12  128D 4C 07 14 1290 AC 06 12  1293 AE 00 8F 1293 AE 00 8F 1298 9D 00 8F 1298 86 FC 129D 20 FA 13 12AA 29 81 12AA 20 02 FF 12A5 A2 00 12A7 BD 70 15 12BA F0 06 12AC 20 02 FF 12BA D0 00 8F 12BD 00 F5 12B2 AD 20 8F 12BD 00 F5 12B2 AD 20 8F 12BD 00 03 12B7 20 02 FF 12BA CE 00 8F 12BD 00 03 12BF 4C 07 14 12C2 4C 9B 11 12C5 AE 00 8F 12CD 86 FC 12C5 AE 00 8F 12CD 87 12CD 80 FT	CMP	#10

131B B0 01	BCS	OKTOPOLL	139A BO 1C		BCS	ENREPUB
131D 60	RTS		139C A9 2A		LDA	#42
131E CE 09 8F OKT	OPOLL DEC	MONEY	139E 85 FC		STA	Z3+1
; prints neader	ICD	CONCLUTIO	13A0 06 FD		ASL	Z4
1321 20 99 21 1324 AE 20 9E	JOH	CUNSULHD	13AZ BU 14		BCS	ENKEPUB
1327 RD 7F 24	LDA	DECEIDET Y	13A4 A9 20 12A6 95 EC		CTA	#34 72⊥1
132A 85 F8	STA	71 ± 1	13A8 06 FD		ASI	7 <u>4</u>
132C CA	DEX	2111	13AA BO OC		RCS	ENREPLIR
132D BD 7F 24	LDA	REGFIRST.X	13AC A9 2A		LDA	#42
1330 85 F7	STA	Z1	13AE 85 FB		STA	Z3
; first & last z1/z1+1			13B0 06 FD		ASL	Z4
1332 A9 96	LDA	#150	13B2 B0 04		BCS	ENREPUB
1334 85 F9	STA	Z2	13B4 A9 20		LDA	#32
1336 A9 04	. LDA	#4	13B6 85 FB		STA	Z3
; ZZ=INDIFECT for Storin	g grapn	70 1 1	13B8 AU U/	ENREPUB	LDY	#7
1330 03 FA 1324 40 2E DOT	5IA	22 <del>+</del> 1	13BA A5 FB		LDA	Z3 (70) V
1330 85 FR	LUUFI LUA CTA	#41 72	1300 91 79		SIA	(ZZ), T
: solids into z3/+1	SIA	20	13BE A5 FC		I DV	<b>73 ⊥</b> 1
133E 85 FC	STA	Z3+1	13C1 91 F9		STA	(72) Y
1340 A6 F7	LDX	Zi	13C3 F6 F7		INC	71
1342 E4 F8	CPX	Ž1+1	13C5 4C 3A 13		JMP	PSTLOOP1
1344 D0 03	BNE	CNPST	;		•	
; end of poll routine			; ** travel			
1346 4C 2E 11	JMP	PRESSFIRE	; regional main me	enu on screen		
1349 A5 F9 CNP	ST LDA	Z2	13C8 20 67 17	travel	JSR	REGLARMEN
134B 18	CLC		13CB AE 20 8F		LDX	CURREG
1340 09 28	ADU	#40	13CE E8		INX	
1340 00 02	SIA	CNDCT1	1307 E8		INX	
1350 50 02 1352 F6 FA	INC	79 ± 1	13DU E0 13D1 AO 1E		INX	ш21
1354 BD 00 90 CNP	ST1 IDA	REALLEAN Y	1301 A0 15		CLC	#31
1357 85 FD	STA	74	13D4 20 F0 FF		JSR	\$FFF0
1359 85 FE	STA	74+1	13D7 A9 3A		I DA	#\$3A
135B A2 04	LDX	#4	13D9 20 D2 FF		JSR	\$FFD2
135D 06 FE SMIL	. ASL	Z4+1	13DC A2 03		LDX	#3
135F CA	DEX		13DE AO 0D		LDY	#13
1360 D0 FB	BNE	SMIL	13E0 20 A3 1C		JSR	SELECT
1362 06 FE	ASL	Z4+1	13E3 C9 00		CMP	#0
1364 BU 10	BCS	PRIDEMM.	13E5 D0 06		BNE	TRA
1300 A9 Z5	1111	#3/				
1260 OF ED	CTA	70	13E7 20 2B 1D		JSR	MAPMAGIC
1368 85 FB	STA	Z3	13EA 4C C8 13	TDA	JMP	TRAVEL
1368 85 FB 136A 06 FE 136C R0 14	STA ASL RCS	Z3 Z4+1 PRTDEMM	13EA 4C C8 13 13ED C9 0A 13EE D0 03	TRA	JSH JMP CMP	TRAVEL #10
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20	STA ASL BCS	Z3 Z4+1 PRTDEMM #32	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13E1 4C 9B 11	TRA	JSH JMP CMP BNE IMP	TRAVEL #10 GOREGG
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB	STA ASL BCS LDA STA	Z3 Z4+1 PRTDEMM #32 Z3	13E7 20 28 10 13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F	TRA GOREGG	JSH JMP CMP BNE JMP STA	TRAVEL #10 GOREGG DEFAULT CURREG
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE	STA ASL BCS LDA STA ASL	Z3 Z4+1 PRTDEMM #32 Z3 Z4+1	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11	TRA GOREGG	JMP CMP BNE JMP STA JMP	TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C	STA ASL BCS LDA STA ASL BCS	Z3 Z4+1 PRTDEMM #32 Z3 Z4+1 PRTDEMM	13E7 20 2B ID 13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11	TRA GOREGG	JMP CMP BNE JMP STA JMP	TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25	STA ASL BCS LDA STA ASL BCS LDA	Z3 Z4+1 PRIDEMM #32 Z3 Z4+1 PRIDEMM #37	13EA 4C C8 13 13EA C9 0A 13EF D0 03 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ;	TRA GOREGG ITINPLOT	JMP CMP BNE JMP STA JMP	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC	STA ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA	Z3 Z4+1 PRTDEMM #32 Z3 Z4+1 PRTDEMM #37 Z3+1	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 13FA A9 16 13FC 38	TRA GOREGG ITINPLOT	JMP CMP BNE JMP STA JMP LDA SEC	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22
1368 85 FB 136A 06 FE 136C 80 14 136E A9 20 1370 85 FB 1372 06 FE 1374 80 0C 1376 A9 25 1378 85 FC 1378 06 FE	ASL BCS LDA STA ASL BCS LDA STA ASL	Z3 Z4+1 PRTDEMM #32 Z3 Z4+1 PRTDEMM #37 Z3+1 Z4+1	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ; 13FA A9 16 13FC 38 13FD E5 FC	Tra Goregg Itinplot	JMP CMP BNE JMP STA JMP LDA SEC SBC	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 1378 06 FE 137C B0 04	ASL BCS LDA STA ASL BCS LDA STA ASL BCS	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 24+1 PRTDEMM	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 98 11 13F4 8D 20 8F 13F7 4C 98 11 ; 13FA A9 16 13FC 38 13FD E5 FC	TRA Goregg Itinplot	JSH JMP CMP BNE JMP STA JMP LDA SEC SBC TAX	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20	ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 PRTDEMM #32 24+1 PRTDEMM	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ; 13FA A9 16 13FC 38 13FD E5 FC 13FF AA	TRA GOREGG ITINPLOT	JSH JMP CMP BNE JMP STA JMP LDA SEC SBC TAX LDY	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20 1380 85 FC	ASL BCS LDA STA ASL BCS LDA STA ASL LDA STA LDA STA	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 24+1 PRTDEMM #32 23+1	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ; 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18	Tra Goregg Itinplot	JSH JMP CMP BNE JMP STA JMP LDA SEC SBC TAX LDY CLC	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32
1368 85 FB 136A 06 FE 136C BO 14 136E A9 20 1370 85 FB 1372 06 FE 1374 BO 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C BO 04 137E A9 20 1380 85 FC 1380 85 FC 1382 A0 00 PRII	STA ASL BCS LDA STA ASL BCS LDA STA ASL LDA STA ASL BCS LDA STA ASL LDA LDA LDA LDA LDA LDA LDA LDA LDA	Z3 Z4+1 PRTDEMM #32 Z3 Z4+1 PRTDEMM #37 Z3+1 Z4+1 PRTDEMM #32 Z3+1 #0	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ; 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 AO 20 1402 18 1403 20 FF	TRA GOREGG ITINPLOT	JSH JMP CMP BNE JMP STA JMP LDA SEC SBC TAX LDY CLC JSR RTS	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32
1368 85 FB 136A 06 FE 136C 80 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20 1380 85 FC 1380 85 FC 1382 A0 00 PRTI 1384 A9 20 1386 91 F9	ASL LDA ASL LDA ASL LDA ASL LDA ASL BCS LDA ASL BCS LDA ASL LDA LDA LDA LDA STA STA STA STA STA STA STA STA STA	Z3 24+1 PRTDEMM #32 Z3 Z4+1 PRTDEMM #37 Z3+1 Z4+1 PRTDEMM #32 Z3+1 #0 #32 (Z2) Y	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ; 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 F0 FF 1406 60	TRA GOREGG ITINPLOT	JSH JMP CMP BNE JMP STA JMP LDA SEC SBC TAX LDY CLC JSR RTS evaluate	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20 1380 85 FC 1380 85 FC 1380 80 FC	ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA LDA STA LDA STA LDY LDA STA LDY LDA STA LDY LDA STA INY	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 PRTDEMM #32 23+1 #0 #32 (Z2),Y	13EA 4C C8 13 13ED C9 0A 13EF D0 09 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 F0 FF 1406 60 15 evalend ** after 1407 20 ZE 11	TRA  GOREGG  ITINPLOT  week is done,	JSH JMP CMP BNE JMP STA JMP LDA SEC SEC TAX LDY CLC JSR RTS evaluate JSR	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20 1380 85 FC 1382 A0 00 PRT0 1384 A9 20 1386 91 F9 1388 C8 1389 A5 FB	ASL BCS LDA STA ASL BCS BCS BCS BCA STA ASL LDA STA ASL LDA STA LDA STA LDA STA INY LDA	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 24+1 PRTDEMM #32 23+1 #0 #32 (Z2),Y	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ; 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 F0 FF 1406 60 ; evalend ** after 1 1407 20 22 E11 140A D0 03	TRA GOREGG ITINPLOT week is done, EVALEND	JSH JMP CMP BNE JMP STA JMP LDA SEC SEC TAX LDY CLC JSR RTS evaluate JSR BNE	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 1378 85 FC 1378 85 FC 1378 B0 04 137E A9 20 1380 85 FC 1382 A0 00 PRTE 1384 A9 20 1386 91 F9 1388 C8 1389 A5 FB 1389 B7 F9	ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA ASL LDA STA INY LDA STA INY LDA STA	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 24+1 PRTDEMM #32 23+1 #0 #32 (22),Y	13EA 4C CB 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 13FA A9 16 13FC 3B 13FF AA 1400 A0 20 1402 18 1403 20 FO FF 1406 60 ; evalend ** after 1407 20 2E 11 140A D0 03 140C 4C D9 11	TRA  GOREGG  ITINPLOT  week is done, EVALEND	JSH JMP BNE JMP STA JMP LDA SEC SBC TAX LDY CLC JSR RTS evaluate JSR BNE JMP	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT RESETREG
1368 85 FB 136A 06 FE 136C 80 14 136E A9 20 1370 85 FB 1372 06 FE 1374 80 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C 80 04 137E A9 20 1380 85 FC 1380 85 FC 1382 A0 00 PRTI 1384 A9 20 1388 C8 1389 A5 FB 1388 C8 1389 A5 FB	ASL BCS LDA STA ASL LDA STA ASL LDA STA LDY LDA STA LDY LDA STA SINY	Z3 24+1 PRTDEMM #32 Z3 Z4+1 PRTDEMM #37 Z3+1 Z4+1 PRTDEMM #32 (Z2),Y	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 FF 1406 60 19 evalend ** after 1407 20 2E 11 140A D0 03 140C 4C D9 11 140F 20 68 19	TRA  GOREGG  ITINPLOT  week is done, EVALEND	JSH JMP BNE JMP STA JMP LDA SEC SBC TAX LDY CLC JSR RTS evaluate JSR BNE JMP JSR	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT EVALUIT EVALUIT EVALUIT EVALUIT EVALUIT EVALUIT EVALUIT EVALUITES
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20 1380 85 FC 1382 A0 00 PRT0 1384 A9 20 1384 A9 20 1386 91 F9 1388 C8 1389 A5 FB 1388 91 F9 1388 C8 1389 A5 FB	ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA LDY LDA STA LDA STA LDY LDA STA LDA LDA STA LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 PRTDEMM #32 23+1 #0 #32 (Z2),Y	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ; 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1400 A0 20 1402 18 1407 20 2E 11 140A D0 03 140C 4C 09 11 140F 20 68 19 1412 20 FA 1A	TRA  GOREGG  ITINPLOT  week is done, EVALEND	JSH JMP STA JMP STA JMP LDA SEC TAX LDY CLC JSR RTS evaluate JSR BNE JMP JSR JSR JSR	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT RESETREG
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20 1380 85 FC 1382 A0 00 PRTG 1384 A9 20 1386 91 F9 1388 C8 1389 A5 FB 1388 91 F9 1388 C8 1388 A5 FC	ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA LDA STA LDY LDA STA INY LDA STA INY LDA STA	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 PRTDEMM #32 23+1 #0 #32 (Z2),Y	13EA 4C CB 13 13ED C9 0A 13EF D0 03 13F1 C9 B11 13F4 BD 20 BF 13F7 4C 9B 11 13FA A9 16 13FC 3B 13FD E5 FC 13FF AA 1400 A0 20 1402 1B 1403 20 F0 FF 1406 60 1807 20 2E 11 140A D0 03 140C 4C D9 11 140F 20 6B 19 1412 20 FA 18	TRA  GOREGG  ITINPLOT  week is done, EVALEND  EVALUIT	JSR JMP CMP BNE JMP LDA SEC SBC TAX LDY CLC JSR RTS EVALUATE JSR BNE JMP JSR JSR JSR JSR JSR JSR	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT RESETREG EVALUOTES CKOEMREP TRANSLEANCOLR
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20 1380 85 FC 1382 A0 00 PRTU 1384 A9 20 1386 91 F9 1388 91 F9 1388 91 F9 1388 95 FB 1388 91 F9 1388 OS 1388 91 F9	ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA ASL LDA STA INY LD	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 24+1 PRTDEMM #32 23+1 #0 #32 (Z2),Y 23 (Z2),Y	13EA 4C CB 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 13FA A9 16 13FC 3B 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 F0 FF 1406 60 1 evalend ** after 1407 20 2E 11 140A D0 03 140C 4C D9 11 140F 20 68 19 1412 20 FA 1A 1415 20 6C 1B 1408 20 AB 18	TRA  GOREGG  ITINPLOT  week is done, EVALEND	JSH JMP CMP BNE JMP LDA SEC SEC TAX LDY JSR RTS evaluate JSR JSR JSR JSR JSR JSR JSR JSR	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT RESETREG EVALUIT RESETREG EVALVOTES CKDEMREP TRANSLEANCOLR
1368 85 FB 136A 06 FE 136C 80 14 136E A9 20 1370 85 FB 1372 06 FE 1374 80 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C 80 04 137E A9 20 1380 85 FC 1382 A0 00 PRTI 1380 85 FC 1388 C8 1389 A5 FB 1388 C8 1389 A5 FB 1388 C8 1389 A5 FB	ASL BCS LDA STA ASL LDA STA ASL BCS LDA STA ASL BCS LDA STA STA LDY LDA STA STA STA STA STA STA STA STA STA ST	Z3 24+1 PRTDEMM #32 Z3 Z4+1 PRTDEMM #37 Z3+1 PRTDEMM #32 (Z2),Y Z3+1 #0 #32 (Z2),Y Z3+1 (Z2),Y	13EA 4C CB 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 13FA A9 16 13FC 3B 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 F0 FF 1406 60 1 evalend ** after 1407 20 2E 11 140A D0 03 140C 4C D9 11 140F 20 6B 19 1412 20 FA 1A 1415 20 6C 1B 1 toggle the party	TRA  GOREGG  ITINPLOT  week is done, EVALEND  EVALUIT	JSM JMP CMP BNE JMP STA JMP LDA SEC SBC TAX LDY CLC JSR RTS evaluate JSR BNE JSR JSR JSR JSR JSR JSR JSR	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT RESETREG EVALVOTES CKOEMREP TRANSLEANCOLR TGLPARTY
1368 85 FB 136A 06 FE 136C 80 14 136E A9 20 1370 85 FB 1372 06 FF 1374 B0 0C 1376 A9 25 1378 85 FC 1376 B0 94 137E A9 20 1380 85 FC 1382 A0 00 PRT0 1384 A9 20 1388 C8 1389 A5 FB 1388 A5 FC 1390 91 F9 1394 A9 2F 1394 A5 FB	ASL BCS LDA STA ASL LDA STA LDA STA LDY LDA STA LDA ST	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 PRTDEMM #32 (22),Y 23 (22),Y 23 (22),Y 23 (22),Y 23 (22),Y	13EA 4C C8 13 13ED C9 0A 13EF D0 09 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 F0 FF 1406 60 12 evalend ** after 1407 20 2E 11 140A D0 03 140C 4C 09 11 140F 20 68 19 1415 20 6C 18 150g 1418 20 8A 1A 1415 20 6C 1B 150g 1418 20 8A 1B	TRA  GOREGG  ITINPLOT  week is done, EVALEND  EVALUIT	JSH JSR	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT RESETREG EVALU
1368 85 FB 136A 06 FE 136C B0 14 136E A9 20 1370 85 FB 1372 06 FE 1374 B0 0C 1376 A9 25 1378 85 FC 137A 06 FE 137C B0 04 137E A9 20 1380 85 FC 1382 A0 00 PRTI 1384 A9 20 1386 91 F9 1388 C8 1389 A5 FB 1388 91 F9 1388 C8 1389 A5 FB 1388 A5 FC 1390 91 F9 1390 91 F9 1392 A9 2F PSTF 1394 85 FB 15916 blocks into 23/+ 1396 85 FC	ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA ASL BCS LDA STA LDY LDA STA INY LDA STA INY LDA STA LD	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 PRTDEMM #32 (22),Y 23 (72),Y 23+1 (72),Y 23+1 (72),Y 23+1 (72),Y	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 F0 FF 1406 60 12 evalend ** after 1407 20 2E 11 140A D0 03 140C 4C D9 11 140F 20 68 19 1412 20 FA 1A 1415 20 6C 1B 15 toggle the party 1418 20 84 1B 15 and jump back to 141B 4C 7A 11	TRA  GOREGG  ITINPLOT  week is done, EVALEND  EVALUIT	JSH JMP CMP BNE STA JMP LDA SEC SBC LDY CLC LDY CLC LSR RTS Sevaluate BNE JMP JSR BNE JMP JSR	MAPMAGIL TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT RESETREG EVALUIT RESETREG EVALVOTES CKDEMREP TRANSLEANCOLR TGLPARTY CONTROL
131B B0 01 131D 60 131E CE 09 8F OKT ; prints header 1321 20 99 21 1324 AE 20 8F 1327 BD 7F 24 132A 85 F8 132C CA 132D BD 7F 24 1330 85 F7 1331 85 F9 1334 85 F9 1336 A9 04 ; 22 = indirect for storin 1338 85 FA 1330 85 FB 1330 85 FB 1330 85 FB 1330 85 FB 1331 A9 96 1334 B1 1334 B1 1349 A5 F9 1348 B1 1349 A5 F9 1348 B1 1349 A5 F9 1348 B1 1349 A5 F9 1359 85 FC 1356 A9 04 1357 85 FD 1358 A2 04 1357 85 FD 1358 A2 04 1357 85 FB 1358 A2 04 1358 B3 FB 1368 B5 FB 1360 D0 FE 1364 B0 1C 1366 A9 25 1378 85 FC 1379 85 FC 1370 85 FB 1370 85 FC 1370 85 FB 1370 85 FC 1370 85 FC 1370 85 FB 1370 85 FC 1370 85 FB 1370 85 FC 1370 85 FC 1370 85 FB 1370 85 FB 1370 85 FC 1370 85 FB 1370 85 FB 1370 85 FC 1370 85 FB 1370 85 FB 1370 85 FC 1370 85 FB 1370 85 FB 1370 85 FC 1370 85 FB 1370 85 FC 1370 85 FB 1370 85 FB 13	ASL BCS LDA STA ASL LDA STA ASL LDA STA LDA STA INY LDA STA IN STA	23 24+1 PRTDEMM #32 23 24+1 PRTDEMM #37 23+1 24+1 PRTDEMM #32 (Z2),Y 23 (Z2),Y 23 (Z2),Y 23+1 (Z2),Y 23+1 (Z2),Y	13EA 4C C8 13 13ED C9 0A 13EF D0 03 13F1 4C 9B 11 13F4 8D 20 8F 13F7 4C 9B 11 ; 13FA A9 16 13FC 38 13FD E5 FC 13FF AA 1400 A0 20 1402 18 1403 20 F0 FF 1406 60 ; evalend ** after 1 1407 20 2E 11 140A D0 03 140C 4C D9 11 140F 20 68 19 1412 20 FA 18 1403 20 FO 18 ; toggle the party 1418 20 84 18 ; and jump back to 1418 4C 7A 11 ; bkcm menu	TRA  GOREGG  ITINPLOT  week is done, EVALEND  EVALUIT	JSH DMP DMP JMP JMP JSTA JMP LDA SEC SBC SBC LDY CLC SBC LDY CLC STA LDY SCA LDY SCA SCA SCA SCA SCA SCA SCA SCA SCA SCA	MAPMAGIC TRAVEL #10 GOREGG DEFAULT CURREG DEFAULT #22 \$FC #32 \$FFF0 results PRESSFIRE EVALUIT RESETREG EVALUTES CKDEMREP TRANSLEANCOLR TGLPARTY CONTROL

	1.04	<b>#</b> 0	14CF 60	CNPRIN	RTS INC	\$FD
141E A9 00 SETUPMENU ; *first line of text	LUA	#0	14D0 E6 FD ; column #	CINPAIN	INC	ቅቦህ
1420 85 FD	STA	\$FD	14D2 A4 A7		LDY	\$A7
1422 A9 0A	LDA	#10	14D4 18		CLC	•
; *last line			14D5 20 F0 FF		JSR	\$FFF0
1424 85 FE	STA	\$FE	14D8 A0 00		LDY	#0
1426 A9 1E	LDA	#30	; kernal plot 14DA A2 FF		LDX ·	#\$FF
; *column number 1428 85 A7	STA	\$A7	14DC B1 FB		LDA	(\$FB),Y
142A A2 31	LDX	# <menu1< td=""><td>14DE 10 10</td><td></td><td>BPL</td><td>REPT</td></menu1<>	14DE 10 10		BPL	REPT
142C AO 14	LDY	#>MENU1	14E0 C8		INY	
142E 4C B8 14	JMP	PRINIT	14E1 B1 FB	JUMPIN	LDA	(\$FB),Y
	D)/TE	055	14E3 F0 D9	DDNT	BEQ	RESETMPTR
1431 FF MENU1	.BYTE .AS	255	14E5 20 D2 FF 14E8 CA	PRNT	JSR Dex	\$FFD2
1432 12 90 A0	.AS	"{RVS}{BLK}{SHIF T-SPACE}USE{SHIF T-SPACE}JOY [ <x &gt;]{SHIFT-SPACE}"</x 	14E9 10 FA		BPL	PRNT
		T-SPACE \ JOY (< X	14EB F0 D1		BEQ	RESETMPTR
		> {SHIFT-SPACE}"	14ED C8		INY	
143E 00	.BYTE	U	14EE D0 F1		BNE	JUMPIN
143F FF	.BYTE	255	14F0 AA	REPT	TAX	
1440 AO D3 D4	.ASC	"{SHIFT-SPACE} <u>STI</u> <u>CK</u> {SHIFT-SPACE} <u>0</u>	14F1 C8 14F2 D0 ED		iny Bne	JUMPIN
		R{SHIFT-SPACE}"	; ** menumain		DIAL	JOIVII IIV
144A 00	.BYTE	0	14F4 A9 00	MENUMAIN	LDA	#0
144B FF	.BYTE	255	14F6 85 FD		STA	\$FD
144C C9 CA CB	.ASC	" <u>ijkl</u> {off} <u>m</u> {rvs}	14F8 A9 0E		LDA	#14
		(SHIFT-SPACE) <u>Key</u>	; first and last lin	es	STA	\$FE
1458 00	.BYTE	<u>S</u>	14FA 85 FE 14FC A9 92		LDA	#146
1459 FF	BYTE	255	14FE 20 D2 FF		JSR	\$FFD2
145A 12 9B 50	ASC	"{RVS} [<8>]PL[	1501 A9 90		LDA	#144
		"{RVS} [<8>]PL[ 1 PARTY{OFF}"	; set unreverse &	black chr color		
1467 00	.BYTE	0	1503 20 D2 FF		JSR	\$FFD2
1468 FF PARNAMEO	.BYTE .ASC	255 "{BLU}DEMOCRATI	1506 A9 1E 1508 85 A7		LDA STA	#30 \$A7
1469 1F 44 45	.ASC	C"	150A A2 48		LDX	# <menum< td=""></menum<>
1474 00	.BYTE	Ŏ	150C AO 15		LDY	#>MENUM
1475 FF PARNAME1	.BYTE	255	150E 20 B8 14		JSR	PRINIT
1476 52 45 50	.ASC	"REPUBLICAN"	1511 AE 15 8F		LDX	PARTY
1480 00	.BYTE	0	1514 BD 25 25		LDA	PRTIS,X #63
1481 FF 1482 12 9B 20	.BYTE .ASC	255 "(RVS) [~8~] INCH	1517 29 3F 1519 8D 47 04		and Sta	1095
1402 12 90 20	.ASU	"{RVS} [<8>] INCU MBENT{OFF}"	151C AD 24 25		LDA	WEEKNO
148F 00	.BYTE	0	151F 09 30 1521 8D 4E 04		ORA	#\$30
1490 FF	.BYTE	255	1521 8D 4E 04		STA	1102
1491 1F 20 20	.ASC	"{BLU} NONE "	; party (d or r) ai 1524 AD 20 8F	nd week number	LDA	CURREG
149C 00 149D FF	.BYTE	0				CONNEG
149E 20 50 4C P1NAME	RVTE	255	1527 NA			
	.BYTE .ASC	255 " PLAYER 1 "	1527 OA		ASL	
	.BYTE .ASC .BYTE	255 " PLAYER 1 " 0,255	1527 OA 1528 OA 1529 OA			
14A8 00 FF 14AA 20 50 4C P2NAME	.asc .byte .asc	" PLAYER 1 " 0,255 " PLAYER 2 "	1527 OA 1528 OA 1529 OA 152A 18		ASL ASL ASL CLC	0
14A8 00 FF	.asc .byte	" PLAYER 1 " 0,255	1527 OA 1528 OA 1529 OA 152A 18 152B 6D 20 8F		ASL ASL ASL CLC ADC	CURREG
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ;	.asc .byte .asc	" PLAYER 1 " 0,255 " PLAYER 2 "	1527 0A 1528 0A 1529 0A 152A 18 152B 6D 20 8F 152E AA		ASL ASL CLC ADC TAX	
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ; ; ** prinit sr	.ASC .BYTE .ASC .BYTE	" PLAYER 1 " 0,255 " PLAYER 2 " 0,0,0,0	1527 OA 1528 OA 1529 OA 152A 18 152B 6D 20 8F 152E AA 152F AD 20 8F		ASL ASL CLC ADC TAX LDA	CURREG
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ; ; ** prinit sr 14B8 86 FB PRINIT	.asc .byte .asc	" PLAYER 1 " 0,255 " PLAYER 2 "	1527 OA 1528 OA 1529 OA 152A 18 152B 6D 20 8F 152E AA 152F AD 20 8F 1532 O9 30		ASL ASL CLC ADC TAX LDA ORA	
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ; ; ** prinit sr	ASC BYTE ASC BYTE STX	" PLAYER 1 " 0.255 " PLAYER 2 " 0.0.0.0	1527 OA 1528 OA 1529 OA 1529 OA 152B 6D 20 8F 152E AA 152F AD 20 8F 1532 09 30 1534 8D 96 O4 1537 AO 00		ASL ASL CLC ADC TAX LDA ORA STA LDY	CURREG #\$30 1174 #0
14A8 00 FF 14A4 20 50 4C P2NAME 14B4 00 00 00 ; ** prinit sr 14B8 86 FB PRINIT ; (sb/msb of text address) 14BA 84 FC 14BC D0 08	ASC BYTE ASC BYTE STX STY BNE	" PLAYER 1 " 0.255 " PLAYER 2 " 0.0,0,0	1527 OA 1528 OA 1529 OA 152A 18 152B 6D 20 8F 152E AA 152F AD 20 8F 1532 09 30 1534 8D 96 04 1537 AO 00 1539 BD 25 24	RGGGLOP	ASL ASL CLC ADC TAX LDA ORA STA LDY LDA	CURREG #\$30 1174 #0 REGIONAME,X
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 : ** prinit sr 14B8 86 FB PRINIT ; (sb/msb of text address) 14BA 84 FC 14BC 00 0B 14BE C8 RESETMPTR	ASC BYTE ASC BYTE STX STY BNE INY	" PLAYER 1 " 0.255 " PLAYER 2 " 0.0.0.0	1527 OA 1528 OA 1529 OA 1524 18 152B 6D 20 8F 152E AA 152F AD 20 8F 1532 O9 30 1534 8D 96 O4 1537 AO 00 1539 BD 25 24 1530 29 3F	RGGGLOP	ASL ASL CLC ADC TAX LDA ORA STA LDY LDA AND	CURREG #\$30 1174 #0 REGIONAME,X #63
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ; ** prinit sr 14B8 86 FB PRINIT ; (tsb/msb of text address) 14BA 84 FC 14BC 00 08 14BC 00 08 14BC 88 RESETMPTR 14BF 98	ASC BYTE ASC BYTE STX STY BNE INY TYA	" PLAYER 1 " 0.255 " PLAYER 2 " 0.0.0.0	1527 0A 1528 0A 1529 0A 1529 10A 1528 6D 20 8F 1528 AA 152F AD 20 8F 1532 09 30 1534 8D 96 04 1537 AO 00 1539 BD 25 24 153C 29 3F 153E FO 07	RGGGLOP	ASL ASL CLC ADC TAX LDA ORA STA LDY LDA AND BEQ	CURREG #\$30 1174 #0 REGIONAME,X #63 OUTRR
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ; ;** prinit sr 14B8 86 FB PRINIT ; (Isb/msb of text address) 14BA 84 FC 14BC D0 0B 14BC C8 RESETMPTR 14BF 98 14C0 18	ASC BYTE ASC BYTE STX STY BNE INY	" PLAYER 1 " 0.255 " PLAYER 2 " 0.0.0.0	1527 OA 1528 OA 1529 OA 1524 18 152B 6D 20 8F 152E AA 152F AD 20 8F 1532 O9 30 1534 8D 96 O4 1537 AO 00 1539 BD 25 24 1530 29 3F	RGGGLOP	ASL ASL CLC ADC TAX LDA ORA STA LDY LDA AND	CURREG #\$30 1174 #0 REGIONAME,X #63
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ; ** prinit sr 14B8 86 FB PRINIT ; (tsb/msb of text address) 14BA 84 FC 14BC 00 08 14BC 00 08 14BC 88 RESETMPTR 14BF 98	ASC BYTE ASC BYTE STX STY BNE INY TYA CLC	" PLAYER 1 " 0.255 " PLAYER 2 " 0.0.0.0 " \$FB \$FC MNPRIN \$FB \$FB	1527 0A 1528 0A 1529 0A 1529 6D 20 8F 152B 6D 20 8F 152F AD 20 8F 152F AD 20 8F 1532 09 30 1534 8D 96 04 1537 AD 96 04 1537 AD 00 1539 BD 25 24 153C 29 3F 153E F0 07 1540 99 98 04 1544 C8	RGGGLOP	ASL ASL CLC ADC TAX LDA ORA STA LDY LDA AND BEQ STA INX INY	CURREG #\$30 1174 #0 REGIONAME,X #63 OUTRR 1176,Y
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ; ** prinit sr 14B8 86 FB PRINIT ; (Isb/msb of text address) 14BA 84 FC 14BC D0 0B 14BC CB RESETMPTR 14BF 98 14C0 18 14C1 65 FB 14C3 90 02	ASC BYTE ASC BYTE STX STY BNE INY TYA CLC ADC STA BCC	" PLAYER 1 " 0.255 " PLAYER 2 " 0,0,0,0 \$FB \$FC MNPRIN \$FB \$FB MNPRIN	1527 0A 1528 0A 1529 0A 1529 6D 20 8F 152E AD 20 8F 152E AD 20 8F 1532 09 30 1534 8D 96 04 1537 A0 00 1539 BD 25 24 1530 29 3F 1536 F0 07 1540 99 98 04 1543 E8 1544 C8 1545 DD F2		ASL ASL ASL CLC ADC TAX LDA ORA STA LDY LDA AND BEQ STA INX INY BNE	CURREG #\$30 1174 #0 REGIONAME,X #63 OUTRR
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 : : ** prinit sr : (sb/msb of text address) 14BA 84 FC 14BC 00 08 14BE C8 RESETMPTR 14BF 98 14C0 18 14C1 65 FB 14C3 85 FB 14C5 90 02 14C7 E6 FC	ASC BYTE ASC BYTE STX STY BNE INY TYA CLC ADC STA BCC INC	" PLAYER 1 " 0,255 " PLAYER 2 " 0,0.0,0 0	1527 OA 1528 OA 1529 OA 152A 18 152B 6D 20 8F 152E AD 20 8F 152E AD 20 8F 1532 09 30 1534 8D 96 04 1537 AO 00 1539 BD 25 24 153C 29 3F 153E FO 07 1540 99 98 04 1543 E8 1544 C8 1545 DD F2	OUTRR	ASL ASL ASL CLC ADC TAX LDA STA LDY LDA AND BEQ STA INY BNE RTS	CURREG #\$30 1174 #0 REGIONAME,X #63 OUTRR 1176,Y
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 1: : ** prinit sr 14B8 86 FB PRINIT ; (sb/msb of text address) 14BA 84 FC 14BC D0 0B 14BE C8 RESETMPTR 14BF 98 14C0 18 14C1 65 FB 14C3 85 FB 14C3 90 02 14C7 E6 FC 14C9 A6 FD MNPRIN	ASC BYTE ASC BYTE STX STY BNE INY TYA CLC ADC STA BCC INC LDX	" PLAYER 1 " 0,255 " PLAYER 2 " 0,0,0,0 " SFB SFC MNPRIN SFB MNPRIN SFB SFB SFB SFB SFB SFB SFB SFB SFC SFD	1527 OA 1528 OA 1529 OA 152A 18 152B 6D 20 8F 152E AA 152F AD 20 8F 1532 09 30 1534 8D 96 O4 1537 AO 00 1539 BD 25 24 153C 29 3F 153E FO 07 1540 99 98 O4 1543 E8 1544 C8 1545 DD F2 1547 60 1548 09 3A 00	OUTRR	ASL ASL ASL CLC ADC TAX LDA ORA STA LDA AND BEQ STA INX INY BNE RTS BYTE	CURREG #\$30 1174 #0 REGIONAME,X #63 OUTRR 1176,Y RGGGLOP 9,58,0
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 ; ; ** prinit sr 14B8 86 FB PRINIT ; (sb/msb of text address) 14BA 84 FC 14BC 00 08 14BC 00 08 14BC 00 08 14BC 00 18 14C 165 FB 14C3 90 02 14C7 E6 FC 14C9 A6 FD MNPRIN 14CB E4 FE	ASC BYTE ASC BYTE STX STY BNE INY TYA CLC ADC STA BCC INC CPX	" PLAYER 1 " 0.255 " PLAYER 2 " 0,0,0,0 0	1527 OA 1528 OA 1529 OA 1529 OA 1528 EA 1528 EA 1528 AD 20 8F 1532 O9 30 1534 8D 96 O4 1537 AO 00 1539 BD 25 24 153C 29 3F 153E FO 07 1540 99 98 O4 1543 E8 1545 DO F2 1547 60 1548 O9 3A O0 1548 FF	OUTRR	ASL ASL ASL CLC ADC TAX LDA ORA STA LDY LDA AND BEQ STA INX INY BNE RTS .BYTE .BYTE	CURREG #\$30 1174 #0 REGIONAME,X #63 OUTRR 1176,Y RGGGLOP 9,58,0 255
14A8 00 FF 14AA 20 50 4C P2NAME 14B4 00 00 00 1: : ** prinit sr 14B8 86 FB PRINIT ; (sb/msb of text address) 14BA 84 FC 14BC D0 0B 14BE C8 RESETMPTR 14BF 98 14C0 18 14C1 65 FB 14C3 85 FB 14C3 90 02 14C7 E6 FC 14C9 A6 FD MNPRIN	ASC BYTE ASC BYTE STX STY BNE INY TYA CLC ADC STA BCC INC LDX	" PLAYER 1 " 0,255 " PLAYER 2 " 0,0,0,0 " SFB SFC MNPRIN SFB MNPRIN SFB SFB SFB SFB SFB SFB SFB SFB SFC SFD	1527 OA 1528 OA 1529 OA 152A 18 152B 6D 20 8F 152E AA 152F AD 20 8F 1532 09 30 1534 8D 96 O4 1537 AO 00 1539 BD 25 24 153C 29 3F 153E FO 07 1540 99 98 O4 1543 E8 1544 C8 1545 DD F2 1547 60 1548 09 3A 00	OUTRR MENUM	ASL ASL ASL CLC ADC TAX LDA ORA STA LDA AND BEQ STA INX INY BNE RTS BYTE	CURREG #\$30 1174 #0 REGIONAME,X #63 OUTRR 1176,Y RGGGLOP 9,58,0

155A 09 20 00	.BYTE	9.32.0	162D 20 D2 FF		JSR	\$FFD2
155D 09 20 00	BYTE	9.32.0	1630 60		RTS	*
155A 09 20 00 1550 FF 1561 1F 20 20 1570 54 56 20 1570 54 56 20 1570 54 56 20 1578 9D 00 FF 1587 20 20 52 1591 00 FF 1593 12 98 20 159F 00 FF 15AB 00 FF	.BYTE	255	1631 A9 00	MNPR9	LDA	#0
1561 1F 20 20	.ASC	"{BLU} CAMPAIGN	1633 20 CD BD		JSR	\$BDCD
156C 00 FF 20	.BYTE	0,255,32,32	1636 AD B8 07		LDA	1976
1570 54 56 20 REGLCL	.ASC	"TV ADS "	; add one for con	nma		
1578 9D 00 FF	BYTE	157.0.255.32.32	1639 8D B9 07		STA	1977
157D 46 55 4E REGLCM	.ASC	"FUNDRAIS"	163C A2 06		LDX	#6
1585 00 FF	BYTE	0.255	163E AD 1B D4	RNLOOPTP	LDA	BAND
1587 20 20 52	ASC	" REST "	1641 29 OF		AND	#\$0F
1591 00 FF	.BYTE	0.255	1643 C9 0A		CMP	#10
1593 12 9B 20	.ASC	"{RVS} [<8>] MA	1645 BO F7		BCS	RNLOOPTP
		P."	1647 09 30		ORA	#\$30
159F 00 FF	.BYTE	0.255	1649 9D B9 07		STA	1977.X
15A1 20 50 4F	ASC	" POLL "	164C CA		DEX	,
15AB 00 FF	BYTE	0.255	: prints random #	s in money slo	t	
15AD 92 96 52	.ASC	"{OFF} [<3>]RECO	164D D0 EF	<b>,</b>	BNE	RNLOOPTP
		NSIDER"	164F A9 3C		LDA	#60
15B9 00 FF	.BYTE	0.255	1651 8D B8 07		STA	1976
15BB 54 52 41	.ASC	"TRAVEL [<7>]"	; put commas ba	ck in		
15C6 00 09 20	.BYTE	0.9.32.0.0.0.0	1654 8D BC 07		STA	1980
;			: barchart part	of itin, but also	works	standalone at end of
; ** menuitin/the itinerary			game			
15CD A9 OE MENUITIN	LDA	#14	1657 20 7A 16	BARCHART	JSR	BAR1
15CF 85 FD	STA	\$FD	165A A9 34		LDA	#52
15D1 A9 19	LDA	#25	165C 85 F8		STA	\$F8
15D3 85 FE	STA	\$FE	165E A9 00		LDA	#0
15D5 A9 1C	LDA	#28	1660 85 F7		STA	\$F7
15D7 85 A7	STA	\$A7	1662 A8		TAY	Ψ
15D9 A9 1E	LDA	#30	1663 A2 02		I DX	#2
: areen			1665 95 FC	FI BARC1	STA	\$FC X
15DB 20 D2 FF	JSR	\$FFD2	1667 CA	. 20,	DEX	ψi Oji
15DE A2 22	LDX	# <itint< td=""><td>1668 10 FB</td><td></td><td>BPI</td><td>FI BARC1</td></itint<>	1668 10 FB		BPI	FI BARC1
15E0 A0 17	LDY	#>ITINT	166A 20 A6 16		JSR	BAR2
15E2 20 B8 14	JSR	PRINIT	166D A9 20		I DA	#32
15E5 A9 2B	LDA	#43	166F A2 02		IDX	#2
15E7 8D 4C 06	STA	1612	1671 95 F9	FI BARC	STA	\$F9 X
15EA A9 2E	LDA	#46	1673 CA	. 25,	DEX	ψι σ <sub>į</sub> , τ
: screen locations/corners			1674 10 FR		RPI	FI BARC
15EC 8D 8C 07	STA	1932	1676 20 D3 16		JSB	BAR3
15EF AD 24 25	LDA	WEEKNO	1679 60		RTS	2
15F2 D0 0B	BNE	GRTON	167A A9 11	BAR1	LDA	#17
15F4 A9 14	LDA	#20	167C 85 FC	5,	STA	\$FC
15F6 A2 08	LDX	#8	167E A9 00		LDA	#0
15F8 20 D2 FF OUNT	JSR	\$FFD2	1680 85 FB		STA	\$FB
15FB CA	DEX		1682 A6 FB	ENBAR1	LDX	\$FB
15FC DO FA	BNE	OUNT	1684 E4 FC		CPX	\$FC
15FE 60	RTS		1686 D0 01		BNE	CNBAR1
15FF AE 08 8F GRTON	LDX	HEALTH	1688 60		RTS	
1602 A9 00	LDA	#0	1689 AO OO	CNBAR1	LDY	#0
; print the health			168B 18		CLC	•
1604 20 CD BD	JSR	\$BDCD	168C 20 F0 FF		JSR	\$FFF0
1607 A2 17	LDX	#23	168F A2 00		LDX	#0
1609 A0 1E	LDY	#30	1691 BD 28 25	LPBAR1	LDA	PRTCO.X
160B 18	CLC		1694 20 D2 FF		JSR	\$FFD2
160C 20 F0 FF	JSR	\$FFF0	1697 A9 25		LDA	#37
160F A9 1E	LDA	#30	; bar & color			
; green			1699 20 D2 FF		JSR	\$FFD2
1611 20 D2 FF	JSR	\$FFD2	169C E8		INX	
1614 AE 09 8F	LDX	MONEY	169D E0 03		CPX	#3
1617 E0 64	CPX	#100	169F D0 F0		BNE	LPBAR1
1619 B0 16	BCS	MNPR9	16A1 E6 FB		INC	\$FB
161B A9 20	LDA	#32	16A3 4C 82 16		JMP	ENBAR1
161D 20 D2 FF	JSR	\$FFD2	16A6 A6 F7	BAR2	LDX	\$F7
1620 EO OA	CPX	#10	16A8 E8		INX	• •
1622 BO 0D	BCS	MNPR9	16A9 E8		INX	
1624 20 D2 FF	JSR	\$FFD2	16AA 86 F7		STX	\$F7
1627 20 D2 FF	JSR	\$FFD2	16AC C8		INY	•
162A 8A	TXA		16AD C4 F8		CPY	\$F8
15BB 54 52 41 15C6 00 09 20    ** menuitin/the itinerary 15CD A9 0E	ORA	#\$30	16AF D0 01		BNE	ENBAR2

; main rts				172C 20 4D		.ASC	" M"
16B1 60 16B2 BD 00 78	ENRAR2	rts LDA	STEVOTE,X	172E 00 FF 2A 1731 20 54		.BYTE .ASC	0,255,42 " T"
16B5 4A	LINDANZ	LSR	SILVOIL,X	1733 00 FF 2A		.BYTE	0,255,42
16B6 85 02		STA	\$02	1736 20 57		.ASC	" W"
16B8 B9 00 90		LDA	REALLEAN,Y	1738 00 FF 2A		.BYTE	0,255,42
16BB A2 02 16BD 29 EE		LDX AND	#2 #\$EE	173B 20 54 173D 00 FF 2A		.asc .byte	" T" 0,255,42
168F FO 06		BEQ	STBAR2	1740 20 46		.ASC	" F"
16C1 CA		DEX	0.0.0.0	1742 00 FF 2A		.BYTE	0,255,42
16C2 29 0E		AND	#\$0E	1745 20 53		.ASC	" S"
16C4 F0 01		BEQ	STBAR2	1747 00 0B 2C 174B FF		.BYTE	0,11,44,0
16C6 CA 16C7 B5 FC	STBAR2	DEX LDA	\$FC,X	1746 FF 174C 5C 20 30		.BYTE .ASC	255 "£ 00<000<000"
16C9 18	OTDANE	CLC	ψι O <sub>I</sub> A	1758 00 FF		.BYTE	0,255
16CA 65 02		ADC	\$02	175A 9A 20 48		.ASC	" [<7>] HEALTH" 32,0,0,0,0
16CC B0 D8 16CE 95 FC		BCS	BAR2	1762 20 00 00 1767 A9 1C	DECLADATEN	.BYTE LDA	
16D0 4C A6 16		sta Jmp	\$FC,X BAR2	1769 20 D2 FF	REGLARMEN	JSR	#28 \$FFD2
16D3 A9 04	BAR3	LDA	#4	176C A9 00		LDA	#0
16D5 85 F8		STA	\$F8	176E 85 FD		STA	\$FD
16D7 A9 00		LDA	#0 \$F7	1770 A9 OF ; red & pointers		LDA	#15
16D9 85 F7 16DB A0 02		STA LDY	ъг <i>і</i> #2	1772 85 FE		STA	\$FE
16DD A9 0F		LDA	#15	1774 A9 1E		LDA	#30
16DF 85 02		STA	\$02	1776 85 A7		STA	\$A7
16E1 B9 25 25	LPHBAR3	LDA	PRTIS,Y	1778 A2 00		LDX LDY	# <regumen #&gt;REGUMEN</regumen 
16E4 29 3F 16E6 91 F7		and Sta	#63 (\$F7),Y	177A AO 80 177C 20 B8 14		JSR	PRINIT
16E8 88		DEY	(4, 1), 1	177F 60		RTS	
; d*r*u header				:			
16E9 10 F6	CNDADO	BPL	LPHBAR3	** setregmenu	alaa		
16EB A9 28 16ED 18	ENBAR3	LDA CLC	#40	sets up menu tat ** z1 = indirect		ennn	
		ADC	\$F7				
16EE 65 F7 16F0 85 F7		ADC STA	\$F7	; ** z2 = x coun : ** z2+1 = cor	ter/to regionar npare byte for	ne end of r	egion
16EE 65 F7 16F0 85 F7 16F2 A9 00		adc Sta Lda	\$F7 #0	; ** z2 = x coun ; ** z2+1 = cor ; ** z3 = number	ter/to regionar npare byte for r of e-votes (b	ne end of r	egion n \$30 = zero)
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8		ADC STA LDA ADC	\$F7 #0 \$F8	** z2 = x coun ** z2+1 = cor ** z3 = number ** z4 = region	ter/to regionar npare byte for r of e-votes (b #	ne end of r	egion 1 \$30 — zero)
16EE 65 F7 16F0 85 F7 16F2 A9 00		adc Sta Lda	\$F7 #0	; ** z2 = x count ; ** z2+1 = cor ; ** z3 = number ; ** z4 = region ; ** z4+1 = sta 1780 A9 80	ter/to regionar npare byte for r of e-votes (b #	ne end of r egin with	egion 1 \$30 = zero) #>REGUMEN
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02		ADC STA LDA ADC STA LDY LDX	\$F7 #0 \$F8 \$F8 #2 #2	;** z2 = x coun; ** z2+1 = cor ;** z3 = numbe; ;** z4 = region; ;** z4+1 = sta 1780 A9 80 1782 85 F8	ter/to regionar npare byte for r of e-votes (b # te#	ne end of r egin with LDA STA	#>REGUMEN Z1+1
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 AO 02 16FA A2 02 16FC A9 10	CKBAR3	ADC STA LDA ADC STA LDY LDX LDA	\$F7 #0 \$F8 \$F8 #2	** z2 = x count ** z2+1 = cor ** z3 = numbel ** z4 = region ** z4+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00	ter/to regionar npare byte for r of e-votes (b # te#	ne end of r egin with LDA STA LDA	#>REGUMEN Z1+1 # <regumen< td=""></regumen<>
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FC A9 10 16FE 18	CKBAR3	ADC STA LDA ADC STA LDY LDX LDA CLC	\$F7 #0 \$F8 \$F8 #2 #2 #16	** 22 = x count ** 22+1 = cor ** 23 = number ** 24 = region ** 24+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7	ter/to regionar npare byte for r of e-votes (b # te#	end of regin with  LDA  STA  LDA  STA  LDA  STA	#>REGUMEN Z1+1 # <regumen td="" z1<=""></regumen>
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FC A9 10 16FE 18 1701 95 FC	CKBAR3	ADC STA LDA ADC STA LDY LDX LDA CLC ADC STA	\$F7 #0 \$F8 \$F8 #2 #16 \$FC.X \$FC.X	;** 22 = x couni ** 22+1 = cor ** 23 = numbe ** 24 = region ;** 24+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1788 A5 FA	ter/to regionar npare byte for r of e-votes (b # te#	ne end of regin with LDA STA LDA STA LDA STA LDA STA LDA STA	#>REGUMEN Z1+1 # <regumen #0="" td="" z1="" z2+1<=""></regumen>
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FC A9 10 16FE 18 16FF 75 FC 1701 95 FC 1703 B0 0D	CKBAR3	ADC STA LDA ADC STA LDY LDX LDA CLC ADC STA BCS	\$F7 #0 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FLX \$FLX	;** 22 = x couni ;** 22+1 = cor ;** 23 = number ;** 24 = region ;** 24+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 FA 1786 85 FA	ter/to regionar npare byte for r of e-votes (b # te#	ne end of regin with STA LDA STA LDA STA LDA STA STA STA	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2</regumen 
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FC A9 10 16FE 18 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9		ADC STA LDA ADC STA LDY LDX LDA CLC ADC STA BCS LDA	\$F7 #0 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FC,X \$FL,X \$FL,X \$FD,X	;** z2 = x couni ** z2+1 = cor ** z3 = numbe ** z4 = region ** z4+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1788 A9 FA 1780 85 F9 1781 A9 00	ter/to regionar npare byte for r of e-votes (b # te#	ne end of regin with STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2 #0</regumen 
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FC A9 10 16FF 18 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7	CKBAR3	ADC STA LDA ADC STA LDY LDX LDA CLC ADC STA BCS LDA STA	\$F7 #0 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FLX \$FLX	:** 22 = x couni :** 22+1 = cor :** 23 = numbe :** 24 = region :** 24+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1788 85 FA 1786 A9 00 1787 85 FD	ter/to regionar npare byte for r of e-votes (b # te#	end of regin with	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2</regumen 
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F6 A0 02 16FA A2 02 16FC A9 10 16FE 18 16FF 75 FC 1701 95 FC 1701 85 F9 1707 91 F7 1709 CA 170A 88		ADC STA LDA ADC STA LDY LDA CLC ADC STA BCS LDA STA DEX DEY	\$F7 #0 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FL,X \$FL,X \$FL,Y \$F,X \$F,X \$F,Y,Y	; ** z2 = x couni ** z2+1 = couni ** z3 = numbe ; ** z4 = region ; ** z4+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1788 A9 00 1786 AS FA 178C 85 F9 178C 85 F9 178C 85 F9 178C 85 F9 1792 85 FE 1794 A8	ter/to regionar npare byte for r of e-votes (b # te#	end of regin with STA LDA STA LDA STA LDA STA LDA STA LDA STA STA LDA STA STA STA STA	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2 #0 Z4 Z4+1</regumen 
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 1708 88 1708 10 EF		ADC STA LDA ADC STA LDY LDA CLC ADC STA BCS LDA STA DEY BPL	\$F7 #0 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FC,X \$LIPBAR3 \$F9,X (\$F7),Y	:** 22 = x couni :** 22+1 = couni :** 23 = numbe :** 24 = region :** 24+1 = sta 1780 A8 80 1782 85 F8 1784 A9 00 1786 85 F7 1786 A9 00 1786 85 FA 1786 85 FA 1786 85 FA 1786 85 FA 1786 85 FB 1796 85 FD 1792 85 FE 1794 A8 1795 A2 01	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of regin with STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA STA STA	#>REGUMEN Z1+1 #-REGUMEN Z1 #0 Z2+1 Z2 #0 Z4
16EE 65 F7 16F0 85 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FE 18 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 88 170A 88 170B 10 EF		ADC STA LDA ADC STA LDY LDX LDA CLC ADC STA BCS LDA STA DEX DEY BPL DEC	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$LIPBAR3 \$F9,X (\$F7),Y	; ** 22 = x couni ** 22+1 = couni ** 24 = numbe ** 24 = region ; ** 24+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 F9 1786 A9 00 1790 85 FD 1790 85 FD 1792 85 FE 1794 A8 1795 A2 01 ; header for region	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	end of regin with LDA STA STA TAY LDX	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2 #0 Z4+1 #1</regumen 
16EE 65 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FE 18 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 88 170B 10 EF 170D C6 02 170F 10 DA		ADC STA LDA ADC STA LDY LDA CLC ADC STA BCS LDA STA DEY BPL	\$F7 #0 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FC,X \$LIPBAR3 \$F9,X (\$F7),Y	:** 22 = x couni :** 22 + 1 = couni :** 23 = numbe :** 24 = region :** 24 + 1 = sta 1780 A8 80 1780 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1788 85 FA 1786 85 F9 1796 85 FD 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 20 F1 17 1794 A2 00	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	end of regin with STA LDA STA LDA STA LDA STA LDA STA LDA STA STA LDA STA STA STA STA	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2 #0 Z4 Z4+1</regumen 
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FF 18 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 88 170B 10 EF 170D C6 02 170F 10 DA ; main rts 1711 60	BABAR3	ADC STA LDA ADC STA LDY LDX CLC ADC STA BCS LDA STA DEY BPL DEC BPL RTS	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$LIPBAR3 \$F9,X (\$F7),Y	:** 22 = x couni :** 22 + 1 = couni :** 23 = numbe :** 24 = region :** 24 + 1 = sta 1780 A8 80 1780 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1788 85 FA 1786 85 F9 1796 85 FD 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 20 F1 17 1794 A2 00	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	end of regin with  LDA STA LDA STA LDA STA STA LDA STA LDA STA STA LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2 #0 Z4+1 #1 #1 #1 #1</regumen 
16EE 65 F7 16F0 85 F7 16F0 85 F7 16F2 89 00 16F4 65 F8 16F6 85 F8 16F8 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FE 18 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 88 170B 10 EF 170D C6 02 170F 10 DA ; main rts 1711 60		ADC STA LDA STA LDY LDA CLC ADC STA BCS LDA STA DEX DEX DEC BPL RTS PHA	\$F7 #0 \$F8 \$F8 \$F2 #2 #16 \$FC,X \$FC,X \$FLIPBAR3 \$F9,X (\$F7),Y CKBAR3 \$02 ENBAR3	: * 22 = x couni : * 22 + 1 = couni : * 23 = numbe : * 24 = region : * 24 + 1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 F9 1786 A9 00 1790 85 F9 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 A2 00 1796 A0 04 1796 BD 25 24	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of regin with STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDX JSR LDX	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2 #0 Z4+1 #1 RHLOP #0 #4 REGIONAME,X</regumen 
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F6 85 F8 16F6 85 F8 16F6 A2 02 16FA A2 02 16FA A2 02 16FC A9 10 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 88 170B 10 EF 170D C6 02 170F 10 DA 170F 11 DA 1711 60 1712 48 1713 A9 25	BABAR3	ADC STA LDA CLC STA LDX LDA CLC ADC STA ECS LDA DEY BPL BPL RTS PHA LDA	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X FLIPBAR3 \$F9,X (\$F7),Y	: * 22 = x couni ** 22+1 = couni ** 23 = numbe ** 24 = region ** 24+1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 F7 1786 A9 00 1790 85 F9 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 20 F1 17 179A A2 00 179C A0 04 179E BD 25 24 17A1 91 F7	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	end of regin with  LDA STA LDA	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2 #0 Z4+1 #1 #1 #1 #1</regumen 
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F4 65 F8 16F8 80 02 16FA A2 02 16FA A2 02 16FC A9 10 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 88 170B A8 170B C6 02 170F 10 DA 1711 60 1712 48 1713 A9 25 1715 95 F9	BABAR3	ADC STA LDA STA LDY LDA CLC ADC STA BCS LDA STA DEX DEX DEC BPL RTS PHA	\$F7 #0 \$F8 \$F8 \$F2 #2 #16 \$FC,X \$FC,X \$FLIPBAR3 \$F9,X (\$F7),Y CKBAR3 \$02 ENBAR3	: * 22 = x couni : * 22 + 1 = couni : * 23 = numbe : * 24 = region : * 24 + 1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 F9 1786 A9 00 1790 85 F9 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 A2 00 1796 A0 04 1796 BD 25 24	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of regin with STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDX JSR LDX	#>REGUMEN Z1+1 # <regumen Z1 #0 Z2+1 Z2 #0 Z4+1 #1 RHLOP #0 #4 REGIONAME,X</regumen 
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F6 85 F8 16F6 85 F8 16F6 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 1708 10 EF 170D C6 02 170F 10 DA 170F 10 DA 1711 60 1711 60 1711 95 F9 1717 95 F9 1717 95 F9 1717 68 1718 4A	BABAR3	ADC STA LDA LDX LDA LDX LDA CLC ADC ADC ADC BCS BCS LDA BCS BCS BDE BPL BPL BPL BPL ATS BCS BPL ATS BCS BPL BPL ATS BCS BPL BPL ATS BCS BPL	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X FLIPBAR3 \$F9,X (\$F7),Y	: * 22 = x couni : * 22 + 1 = couni : * 23 = numbe : * 24 - region : * 24 + 1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1788 A9 00 1790 85 F9 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 20 F1 17 179A A2 00 179C A0 04 179E BD 25 24 17A1 91 F7 17A3 C8 17A4 EB 17A5 E0 08	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of regin with the control of	#>REGUMEN Z1+1 # <regumen Z1+1 #0 Z2+1 Z2 #0 Z4+1 #1 RHLOP #0 #4 REGIONAME,X (Z1),Y</regumen 
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F6 85 F8 16F6 85 F8 16F8 AO 02 16FA A2 02 16FA A9 10 16FF 75 FC 1701 95 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 80 170B 10 EF 170D C6 02 170B 10 EF 170D C6 02 170B 10 DA 170B 10 DA 170B 10 DA 1711 60 1712 48 1713 A9 25 1715 95 F9 1717 68 1718 4A	BABAR3	ADC STA LADC STA LADC STA LDX	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X FLIPBAR3 \$F9,X (\$F7),Y	: * 22 = x couni : * 22 + 1 = couni : * 23 = numbei : * 24 = region : * 24 + 1 = sta 1780 A8 80 1786 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 F9 1786 A9 00 1786 85 F9 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 20 F1 17 1794 A2 00 1795 A0 04 1796 BD 25 24 17A1 91 F7 17A3 C8 17A4 E8 17A5 E0 08 17A7 D0 F5	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of r region with the state of the sta	#>REGUMEN Z1+1 #-REGUMEN Z1 #0 Z2+1 Z2 #0 Z4 Z4+1 #1 RHLOP #0 #4 REGIONAME,X (Z1),Y
16EE 65 F7 16F0 85 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F8 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FE 18 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 88 170B 10 EF 170D C6 02 170F 10 DA ; main rts 1711 60 1712 48 1713 A9 25 1717 68 1718 4A 1719 4A	BABAR3	ADC STA LDDX LDDX LDDX LDDX LDDA CADC STA BCS LDTA BCS LDTA BCS LDTA BCS RTS PHA LDTA LSTA LSTA LSTA LSTA LSTA LSTA LSTA LS	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FC,X \$LIPBAR3 \$F9,X (\$F7),Y CKBAR3 \$02 ENBAR3	: ** 22 = x couni : ** 22 + 1 = couni : ** 23 = numbe : ** 24 = region : ** 24 + 1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1786 A9 00 1786 85 F9 1786 A9 00 1787 A8 FD 1790 85 FD 1792 85 FE 1794 A8 1795 A2 01 : header for region 1797 20 F1 17 179A A2 00 179C A0 04 179E BD 25 24 17A1 91 F7 17A1 5 E0 08 17A4 E8 17A5 E0 08 17A7 D0 F5 17A9 A2 00	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of r region with the control of the control	#>REGUMEN Z1+1 #-REGUMEN Z1 #0 Z2+1 Z2 #0 Z4+1 #1 #1 RHLOP #0 #4 REGIONAME,X (Z1),Y
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F6 85 F8 16F6 85 F8 16F8 AO 02 16FA A2 02 16FA A9 10 16FF 75 FC 1701 95 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 170A 80 170B 10 EF 170D C6 02 170B 10 EF 170D C6 02 170B 10 DA 170B 10 DA 170B 10 DA 1711 60 1712 48 1713 A9 25 1715 95 F9 1717 68 1718 4A	BABAR3	ADC STA LADC STA LADC STA LDX	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X FLIPBAR3 \$F9,X (\$F7),Y	: * 22 = x couni : * 22 + 1 = couni : * 23 = numbe : * 24 = region : * 24 + 1 = sta 1780 A8 80 1782 85 F8 1784 A9 00 1788 A9 00 1788 A9 00 1788 A9 00 1788 A9 00 1798 85 FA 1796 85 F9 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 20 F1 17 1797 A0 04 179E BD 25 24 17A1 91 F7 17A3 C8 17A4 E8 17A5 C0 08 17A7 D0 F5 17A9 A2 08 17A8 AC 36 19 17A6 88	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of r region with the state of the sta	#>REGUMEN Z1+1 #-REGUMEN Z1 #0 Z2+1 Z2 #0 Z4 Z4+1 #1 RHLOP #0 #4 REGIONAME,X (Z1),Y
16EE 65 F7 16F0 85 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F6 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FE 18 1701 95 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 1708 88 1708 10 EF 170D C6 02 170F 10 DA 1710 A8 1711 60 1712 48 1713 A9 25 1715 95 F9 1717 68 1718 4A 1719 4A 1719 4A	BABAR3	ADC STDA ADC STA STDY LLDX LLDA C ADC STA SLDA DELY BPL DEPL BPL STA LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	\$F7 #0 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FLIPBAR3 \$F9,X (\$F7),Y CKBAR3 \$02 ENBAR3	: * 22 = x couni : * 22 + 1 = couni : * 23 = numbe : * 24 = region : * 24 + 1 = sta 1780 A9 80 1786 85 F8 1784 A9 00 1786 85 F9 1788 A9 00 1786 85 F9 1786 A9 00 1798 85 FD 1792 85 FE 1794 A8 1795 A2 01 : header for region 1797 20 F1 17 1795 A2 01 : header for region 1797 A0 04 179E BD 25 24 17A1 91 F7 17A3 C8 17A4 E8 17A5 E0 08 17A7 BC 00 17A9 A2 08 17A8 AC 36 19 17AE 86 FD	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of rich end	#>REGUMEN Z1+1 #-REGUMEN Z1 #0 Z2+1 Z2 #0 Z4 Z4+1 #1 RHLOP #0 #4 REGIONAME,X (Z1),Y
16EE 65 F7 16F0 85 F7 16F0 85 F7 16F2 A9 00 16F4 65 F8 16F6 85 F8 16F6 A0 02 16FC A9 10 16FE 18 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 1708 88 1708 10 EF 170D C6 02 170F 10 DA ; main rts 1711 60 1712 48 1713 A9 25 1715 95 F9 1717 95 F9 1717 94 1718 4A 1719 4A 1719 49 171B 09 24 171F 4C 07 17 ;	BABAR3 FLIPBAR3	ADC STADA ADC STAL LDX LDX LDAC CADC STAS BCDA STA DEY BPL DEY LDA STA LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FLY \$FC,X \$LIPBAR3 \$F9,X (\$F7),Y \$CKBAR3 \$02 ENBAR3 #37 \$F9,X \$F9,X	: * * 22 = x couni * * 22 + 1 = couni * * 23 = numbe * * 24 = region * * 24 + 1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 F9 1786 85 F9 1786 85 F9 1787 85 F9 1792 85 F9 1792 85 F1 1794 A8 1795 A2 01 1894 1794 1797 1797 A0 04 1797 A0 04 1798 A2 00 1790 A0 04 1791 F7 1793 C8 1746 E8 1747 D0 F5 1748 88 1748 68 F9 1748 88 1749 66 FD 1748 68 FD	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of r with the end of r	#>REGUMEN Z1+1 # <regumen #0="" #1="" #4="" #8="" (z1),y="" regioname,x="" rhdr="" rhlop="" rhtabl="" td="" z1+1="" z2="" z2+1="" z4="" z4+1="" z4<=""></regumen>
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F6 85 F8 16F6 85 F8 16F8 AO 02 16FA A2 02 16FA A2 02 16FC A9 10 16FE 18 1701 95 FC 1701 95 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 1708 88 1708 10 EF 170D C6 02 170F 10 DA	BABAR3 FLIPBAR3	ADC STA LADC STA LADC STA LDX	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FC,X \$LIPBAR3 \$F9,X (\$F7),Y CKBAR3 \$02 ENBAR3 #37 \$F9,X #11 #36 BABAR3 11,35,0	: * 22 = x couni ** 22 + 1 = couni ** 24 = region ** 24 + 1 = sta 1780 A8 80 1782 85 F8 1784 A9 00 1786 85 F7 1786 85 F7 1786 85 F7 1786 85 F9 1792 85 F8 1795 A2 01 ; header for region 1797 20 F1 17 1795 A2 00 1796 A0 04 1796 BD 25 24 1774 E8 17A3 C8 17A4 E8 17A5 E0 08 17A7 D0 F5 17A9 A2 08 17A7 D0 F5 17A9 A2 08 17A6 E6 FD 17A6 E8 FD 17A6 E8 FD 17A7 E8 FD 17A8 AC 36 19 17A8 AC 36 19 17A8 AC 36 19 17A8 AC 36 O0	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of r with the end of r	#>REGUMEN Z1+1 #-REGUMEN Z1 #0 Z2+1 Z2 #0 Z4+1 #1 RHLOP #0 #4 REGIONAME,X (Z1),Y #8 RHDR #8 RHTABL Z4 #10
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F8 85 F8 16F8 A0 02 16FA A2 02 16FA A2 02 16FC A9 10 16FF 75 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 1708 A8 1708 A8 1708 C6 02 170F 10 DA 170B 10 EF 170D C6 02 170F 10 DA 1711 60 1712 48 1713 A9 25 1715 95 F9 1717 68 1718 4A 1718 4A 1718 29 01 1710 09 24 1717 4C 07 17 1722 08 23 00 1725 FF 2A	BABAR3 FLIPBAR3	ADC STA LDD STA LDD LDD CADC STA SLD STA LDD STA SLD SC STA SC SC STA SC SC STA SC SC SC STA SC	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FLY \$FC,X \$LIPBAR3 \$F9,X (\$F7),Y \$CKBAR3 \$02 ENBAR3 #37 \$F9,X \$F9,X	: * * 22 = x couni * * 22 + 1 = couni * * 23 = numbe * * 24 = region * * 24 + 1 = sta 1780 A9 80 1782 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 F9 1786 85 F9 1786 85 F9 1787 85 F9 1792 85 F9 1792 85 F1 1794 A8 1795 A2 01 1894 1794 1797 1797 A0 04 1797 A0 04 1798 A2 00 1790 A0 04 1791 F7 1793 C8 1746 E8 1747 D0 F5 1748 88 1748 68 F9 1748 88 1749 66 FD 1748 68 FD	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of r with the end of r	#>REGUMEN Z1+1 # <regumen #0="" #1="" #4="" #8="" (z1),y="" regioname,x="" rhdr="" rhlop="" rhtabl="" td="" z1+1="" z2="" z2+1="" z4="" z4+1="" z4<=""></regumen>
16EE 65 F7 16F0 85 F7 16F0 85 F8 16F6 85 F8 16F6 85 F8 16F8 AO 02 16FA A2 02 16FA A2 02 16FC A9 10 16FE 18 1701 95 FC 1701 95 FC 1701 95 FC 1703 B0 0D 1705 B5 F9 1707 91 F7 1709 CA 1708 88 1708 10 EF 170D C6 02 170F 10 DA	BABAR3 FLIPBAR3	ADC STA LADC STA LADC STA LDX	\$F7 #0 \$F8 \$F8 \$F8 #2 #16 \$FC,X \$FC,X \$FC,X FLIPBAR3 \$F9,X (\$F7),Y CKBAR3 \$02 ENBAR3 *37 \$F9,X #11 #36 BABAR3 11,35,0 255,42	: * 22 = x couni : * 22 + 1 = couni : * 23 = numbe : * 24 = region : * 24 + 1 = sta 1780 A8 80 1786 85 F8 1784 A9 00 1786 85 F7 1788 A9 00 1786 85 F9 1798 A9 00 1798 85 FD 1792 85 FE 1794 A8 1795 A2 01 ; header for region 1797 20 F1 17 1795 A0 04 1796 BD 25 24 1774 E8 17A5 E0 08 17A1 91 F7 17A3 C8 17A4 E8 17A5 E0 08 17A8 AC 36 19 17A8 AC 36 19 17AF E6 FD 17B1 A5 FD 17B3 C9 0A 17B3 C9 0A 17B3 C9 0A	ter/to regionar npare byte for r of e-votes (b # te# SETREGMEN	ne end of r region with the state of the sta	#>REGUMEN Z1+1 # <regumen #0="" #1="" #4="" #8="" (z1),y="" regioname,x="" rhlop="" rhtabl="" td="" z1="" z2="" z2+1="" z4="" z4+1="" z4<=""></regumen>

17BC 91 F7	S	TA	(Z1),Y #28 (Z1),Y #42 (Z1),Y #42 (Z1),Y #43 (Z1),Y #31 (Z1),Y #4 (Z1),Y #31 (	182F 85 FA		STA	Z2+1
17BE C8	II.	٧Y		1831 20 F1 17		JSR	RHLOP
17BF A9 1C	L	DA ·	#28	1834 A6 F9		LDX	Z2
1/C1 91 F/	S	iA .	(Z1),Y	1836 AU U4		LDY	#4
, reu	IA.	ıv		1838 AD FD		LDA	<u>μ</u> φοη
1703 00	10	DV .	442	103A 49 30 103C 01 E7		CTA	#ֆპU /71\ V
1704 A3 ZA	6	TA .	#42 (71) V	183E CR		INIV	(21),1
· left har (red)	3	nin .	(21),1	183F C8		INY	
17C8 C8	IN	٧Y		1840 BD 25 24	RFI OGP	i DA	REGIONAME X
17C9 A5 FD	Ü	DA .	Z4	1843 FO 06		BEQ	regioname,X orelf
17CB 09 30	ō	RA .	#\$30	1845 91 F7		STA	(Z1).Y
17CD 91 F7	Ś	TA .	(Z1),Y	1847 E8		INX	` "
; region number				1848 C8		INY	
17CF C8	11	٧Y		1849 D0 F5		BNE	RELOGP
17D0 A9 1F	L	DA	#31	184B A6 FD	ORELF	LDX	Z4
; now blue	_			184D BD 7F 24		LDA	REGFIRST,X
17D2 91 F7	S	IA :	(Z1),Y	1850 85 FA		STA	Z2+1
17D4 C8 L	UPLO IN	VY		1852 AC 36 19		LDY	RHIABL
17D0 DD 05 04	IP.	VX DA	DECIONALIE V	1050 88	NEVETTT	DEY	74 . 4
17D0 DD 23 24	L	DA TA	HEGIUNAME,X	1000 AD FE	NEXPILL	LUA	24+1
17D9 91 F7	3	NE I	(21),1 LUDIO	1030 UA 1050 AA		HOL TAV	
17DD D0 17	IN.	UV.	LOI LO	1854 49 30		I DA	#¢30
17DF 4C AF 17	.ii	MP I	NINFI X	185C 85 FB		STA	73
17F1 20 02 18 R	FTMFNII J	SR	REMTIN	185F 85 FC		STA	73+1
17E4 A9 00	L	DA	#0	1860 A9 FF		LDA	#255
17E6 A2 04	Ū	DX	#4	1862 91 F7		STA	(Z1).Y
17E8 91 F7 S	IMCOM S	TA	(Z1),Y	; begin first state		•	(/,-
17EA C8	11	VΥ	, ,,	1864 C8		INY	
17EB CA	D	EX		1865 A9 1C		LDA	#28
17EC DO FA	В	NE	SIMCOM	1867 91 F7		STA	(Z1),Y
; done with header,	do the regions			; red			
17EE 4C 11 18	Ji	MP 1	INDIVREGS	1869 C8		INY	
1/F1 A2 01 R	HLOP L	DX :	#1	186A A9 2A		LDA	#42
1/F3 AU UU	LICOD LI	DY :	#U	186C 91 F/		SIA	(Z1),Y
17F0 BU 30 19 K	HSUP LI	DA I	KH IABL,X /74) V	, graphics chr		INIV	
1/F0 91 F/	3	IA I	(Z1),1	100E UO		IDA	4151
17FR FR	II.	dY		1971 Q1 F7		CTA	/71\ V
17FC FC 36 19	Ü	PY	RHTARI	· light blue		JIA	(21),1
17FF D0 F4	Ř	NF I	RHSOP	1873 C8		INY	
1801 60	Ř	TS		1874 A5 FE		LDA	Z4+1
; sets up word 'men	u' at end			1876 C9 0A	BACKOR	CMP	#10
1802 A2 01 R	EMTIN L	DX -	#1	1878 90 07		BCC	LSBSTN
1804 BD 59 19 L	MNPP L	DA	MENWRD,X	187A E6 FC		INC	Z3+1
1807 91 F7	S	TA .	(Z1),Y	187C E9 OA		SBC	#10
1809 C8	IN	VY		187E 4C 76 18		JMP	BACKOR
180A E8	IN.	٧X		1881 65 FB	LSBSTN	ADC	Z3
1808 EC 59 19	Ü	PX	MENWKU	1883 85 FB		SIA	Z3
1805 00 14	B	INE I	LMNPP	1885 A5 FU		LUA	Z3+1
indiverse de the in	H Recipies devidual	115		100/ 91 7/		SIA	(21),1
, Iliulvieys up the in	UNUUM TEGIOTIS	DA.	ш4	1009 UO		IDA	72
1912 QE ED	NDIVINEGO L	TA .	#! 74	1990 AJ FD		CTA	/71\ V
1815 85 FF	3	TA .	24 74 <b>+</b> 1	state number		SIA	(21),1
1817 DO 09	R	NF	FREGT	188F C8		INY	
1819 F6 FD F	NTRREG IN	VC.	74	188F A9 20		LDA	#32
181B A5 FD	L	DA	74	1891 91 F7		STA	(Z1).Y
181D C9 0A	Č	MP	#10	1893 C8		INY	<b>()</b>
181F D0 01	B	NE	EREGT	1894 A9 97		LDA	#151
; ** main rts	_			1896 91 F7		STA	(Z1),Y
1821 60	R	TS		; gray 1			•
1822 E6 F8 E	REGT IN	VC	Z1+1	1898 C8		INY	
1824 A9 09	L	DA	#9	1899 BD DC 21		LDA	STNAME,X
1826 18	Ċ	LC		189C 91 F7		STA	(Z1),Y
1827 65 F9	Ā	DC	<u>//</u>	189E C8		INY	
1829 85 F9	S	iA DA	ZZ	189F E8		INX	CTNAMEY
182B A9 UU	Ļ	UA.	#U 70   1	18AU BU DU 21		LUA	SINAME,X
IDZU DO HA	A	טעו	22 T	10A3 91 F/		SIA	(£1),T

18A5 C8	INY	#32 (Z1),Y #\$30 Z3 23+1 STEVOTE,X #10 LSBSTE Z3+1 #10 BACKOP Z3 Z3+1 (Z1),Y Z3 (Z1),Y Z3 (Z1),Y	191B A9 20		LDA	#32
; 2-byte name of state	DEX LDA STA INY LDA STA		191D 91 F7		STA	(Z1),Y
18A6 CA	DEX		191F C8		INY	
18A7 A9 20	LDA	#32	1920 A9 00		LDA	#0
18A9 91 F7	SIA	(Z1),Y	1922 91 F7		SIA	(Z1),Y
18AB C8	INY	μοοη	1924 68		INY	ena
18AC A9 30 18AE 85 FB	CTA	#\$3U 72	1925 UD UZ		DEC	ΦU2 EII II IV
; reset z3 for e votes	SIA	23	1929 49 00	FYRAT	I DA	#0
1880 85 FC 1882 BD 00 78 1885 C9 0A BACKOP 1887 90 07	STA	73+1	1928 A2 04	CAIDA	IDX	#4
18B2 BD 00 78	LDA	STEVOTE.X	192D 91 F7	EXRLPP	STA	(Z1).Y
18B5 C9 OA BACKOP	CMP	#10	192F C8		INY	(= -), .
18B7 90 07	BCC	LSBSTE	1930 CA		DEX	
1889 E6 EC	INC	Z3+1	1931 D0 FA		BNE	EXRLPP
18BB E9 0A	SBC	#10	; go back			
18BB E9 0A 18BD 4C B5 18 18C0 65 FB LSBSTE	JMP	BACKOP	1933 4C 19 18		JMP_	ENTRREG
18CO 65 FB LSBSTE	ADC	Z3	1936 23 09 23	RHTABL	BYTE	35,9,35,0,255
1802 85 FB	SIA	Z3	193B 20 20 20		BYIE	32,32,32,32,32
1004 AD FU	CTA	23 + 1 (71) V	1940 20 20 20		DVTE	32,32,32,32,32 0.0 44 0.355
18C8 C8	INV	(21),1	1945 00 09 20		.DITE	"(R/C) [-7\306(R)
18C9 A5 FR	I DA	73	1347 12 37 20		.750	"{RVS} [<7>]%{BL K} <u>MAP</u>
18CB 91 F7	STA	(71) Y	1951 AO AO AO		RYTE	160 160 160 160
: electoral votes	0.,,	(= -//-	1955 AO AO 92		BYTE	160,160,146,0
18CD C8	INY		1959 OE FF	MENWRD	.BYTE	14.255
18CE A9 20	LDA	#32	195B 1C 2A 4D		.ASC	"{RED}*MENU 32,32,32,32,32,0,0
18D0 91 F7	STA	(Z1),Y	1961 20 20 20		.BYTE	32,32,32,32,0,0
18D2 C8	INY		;			
18D3 A9 00	LDA	#0	; bkcm.mcamp			
1805 91 F/	SIA	(Z1),Y	;	DEALLEAN		*******
18BB E9 UA 18 18BD 4C B5 18 18C0 65 FB 18C2 85 FB 18C4 A5 FC 18C6 91 F7 18C8 C8 18C9 A5 FB 18CB 91 F7 18CB C8 18CB A5 FB 18CB 91 F7 18CB C8 18CB A5 FB 18CD C8 18CB A5 FB 18D3 A5 90 18D5 91 F7 18D7 C8 18D7 C8 18D7 C8	INY		1908	HEALLEAN	== itinor	\$9000
end of pass for this state			1968 AD OR RE	FIMILIFIE	I DA	AL ACTRECI
18D8 F6 FF	INC.	74+1	1968 8D 20 8F	LWILVOILO	STA	CURREG
18DA A5 FE	LDA	74+1	196E A9 08		LDA	#8
18DC C5 FA	CMP	Z2+1	1970 8D 00 8F		STA	DAY
18DE FO 03	BEQ	JNUUS	1973 CE 00 8F	NEXDAY	DEC	DAY
18E0 4C 56 18	JMP	NEXSTTT	1976 D0 01		BNE	CNEVAL
;			; main rts			
; fill out w/spaces & do next	region		1978 60		RTS	
18E3 20 02 18 JNUUS	JSR	REMTIN	1979 AE 00 8F	CNEVAL	LDX	DAY
18ED AD FA	LDA	74 . 1	197C BD 00 8F	. saatda	LDA	UAY,X
10E0 00 FE	SIA	24 T I	, II Zelo then its a	restuay	DNE	CVMONEV
18FC CA	DEX	44	check # of el	atec and etore	in an CO	ONIVIONET
18FD BD 7F 24	IDA	REGEIRST X	1981 20 R1 1A	ales and slote	ISR U	CKNOSTATES
18F0 85 02	STA	\$02	: no campaign	ing, recharge b	atteries	ONTOOTALEO
18F2 E8	INX	**-	1984 20 DO 1A		JSR	RESTDAY
18F3 BD 7F 24	LDA	REGFIRST,X	1987 4C 73 19		JMP	NEXDAY
18F6 38	SEC		;			
18F7 E5 02	SBC	\$02	198A 10 17	CKMONEY	BPL	CKMDOL
18F9 85 02	SIA	\$02	198C 6A		ROR	
18FB A9 U8	LDA	#8 •00	198D BU 03		BCS	RAISBUCKS
10FD E3 U2 18EE 85 02	SBU	ΦU2 Φ02	1907 4U AO 1B	DVICDITORG	JIVIP	I ELEVIOI
1901 30 26	RMI	FYRAT	1992 AD 10 OF	NAISBUUKS	ASI	FUNDA
1903 A9 09	LDA	#9	1996 6D 09 8F		ADC	MONEY
1905 91 F7	STA	(Z1).Y	1999 90 02		RCC	OVEROM
1907 C8	INY	(=·//·	199B A9 FF		LDA	#\$FF
1908 A9 23	LDA	#35	199D 8D 09 8F	OVEROM	STA	MONEY
190A 91 F7	STA	(Z1),Y	19A0 4C 73 19		JMP	NEXDAY
190C C8	INY		19A3 AC 09 8F	CKMDOL	LDY	MONEY
190D A9 00	LDA	#0	; no money paraly	zes campaign		
1905 97 57	SIA	(Z1),Y	19A6 FU CB		BEQ	NEXUAY
1012 06 02	DEC	<b>¢</b> 02	Obeck for travel		PHA	
1914 30 13	BMI	FXRAT	10AQ A2 AA		IDV	#0
1916 A9 N9 FILLILV		WALKET I	1303 NE UU		LDA	πυ
	LDA	#9	19AR FR	REGI QQ	INY	
1918 91 F7	LDA STA	#0 (Z1),Y  Z4+1 Z4+1 Z2+1 JNUIS NEXSTTT  REMTIN Z2+1 Z4+1 Z4+1 Z4  REGFIRST,X \$02  REGFIRST,X \$02  #8 802 \$02 #8 802 \$02 EXRAT #9 (Z1),Y  #0 (Z1),Y  \$02 EXRAT #9 (Z1),Y	19AB E8 19AC DD 7F 24	REGL99	INX CMP	REGFIRST.X

19B1 EC 0B 8F	С	PX		1A20 88			DEY	
; check region	-		0111 0011	1A21 D0	FC 44			HLTLOOP
19B4 F0 09	В	EQ	PULCON	1A23 20	57 1A		JSR	MORVOTES
19B6 8E 20 8F	S	IX	CURREG	; 4 camp	aign effec	tiveness		0.1.1DEEE
19B9 8E 0B 8F	B S S D PULCON P	IX		1A26 AD	16 81		LUA	CAMPEFF
19BC CE 09 8F	ט יייים	)EU		1A29 20				MORVOTES
	PULCON P	'LA		; 5 check	tive issu	es (indirect from		
19C0 20 CF 19	_ J:	SR		1A2C A0				#6
; regular campaign	day Ji Ji Ji			1A2E 88	••	CK5LOOP	DEY	004410100115
19C3 20 E9 19	J	SR	Washup Votecount Subhnm	1A2F D0	01		BNE	GCANDISSUE
19C6 20 5D 1A	J	SR	VOIECOUNI	; main rts	3			
19C9 20 8C 1A	J	SR :	Subhnm	1A31 60			RTS	
; addvotes				1A32 B9	1A 8F	GCANDISSU	LDA	LASTWK,Y
19CC 4C 73 19	JI	MP	Nexday	1A35 D1			CMP	(\$FD),Y
;				1A37 D0	07		BNE	UPDOWN
; begin main routing	e for campaign i	in state	results	1A39 A9	03			#3
; accumulator holds	state #			1A3B 20	57 1A			MORVOTES
19CF 85 02	setzpp s	TA :	\$02	1A3E D0			BNE	CK5LOOP
19D1 85 FB	S	TA :	\$FB	1A40 AA		UPDOWN	TAX	
19D3 C6 FB	D	EC :	\$FB	1A41 CA			DEX	
19D5 A5 FB	Ū	DA :	\$FB	1A42 8A			TXA	
19D7 0A	Ā	SL	•	1A43 D1			CMP	(\$FD),Y
19D8 0A	A	SL		1445 DO	07		BNE	DOWNUP
19D9 18	Ċ	ĹČ		1A47 A9 1A49 20 1A4C D0	01	ONLYONE	LDA	#1
19DA 65 FB	Ă	DC .	\$FR	1449 20	57 1A	0.12.01.2		MORVOTES
19DC 85 FB	S	TA	\$FR	1A4C D0	F0			CK5LOOP
19DE 85 FD	Š	TA	\$FD	1A4E E8	-		INX	CHOLOGI
19E0 A9 92	Ĭ	DA	#>STPVOTES	1A4F E8		20111101	INX	
19E2 85 FC		TA .	ΦEC.	1A50 8A			TXA	
19E4 A9 91		DA	#>STISSUES \$FF	1A51 D1	FD		CMP	(\$FD),Y
19E6 85 FE		TA :	\$FE	1A53 D0			BNE	CK5LOOP
; zp pointers are se		,,,,		1A55 F0				ONLYONE
19E8 60		TS			10		DLG	ONLIONE
	"			· monvote	ohhe a	a to \$ff (cour	iter of vo	ites won)
; 1 check health				1457 18	3 auus	MORVOTES	CLC	nos non
1000 AD 00 0F 1				יו וטרוו		MONTO		
		DV.	HEAI TH	1458 65	EE		<b>∆DC</b>	¢FF
19E9 AD 08 8F 1	WASHUP LI	DA DID	HEALTH #8F8	1A58 65	FF			\$FF \$FE
; 1 check health 19E9 AD 08 8F 1 19EC 29 F8		DA ND	HEALTH #\$F8 CNI FAN	1A5A 85	FF FF		STA	\$FF \$FF
19EE DO 05	В	NE	HEALTH #\$F8 CNLEAN #1	1A58 65 1A5A 85 1A5C 60	FF FF			
19EE DO 05 19F0 A9 01	B Li	DA .	#\$F8 CNLEAN #1	1A5A 85 1A5C 60 ;	FF	e votes wan ner	STA RTS	\$FF
19EE DO 05 19F0 A9 01 19F2 85 FF	B L S	DA .	\$FF	1A5A 85 1A5C 60 ; ; votecour	FF nt (makes	s votes won per	STA RTS manent i	\$FF in state vote count)
19EE D0 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther	B LI S n no go	BNE DA STA	\$FF	1A5A 85 1A5C 60 ; ; votecour 1A5D A0	FF nt (makes 05	VOTECOUNT	STA RTS manent i LDY	\$FF in state vote count) #5
19EE DO 05 19F0 A9 01 19F2 85 FF	B Ll S n no go	DA .	\$FF	1A5A 85 1A5C 60 ; ; votecour 1A5D A0 1A5F B1	FF nt (makes 05	VOTECOUNT	STA RTS manent i LDY LDA	\$FF in state vote count)
19EE D0 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60	B Ll S n no go	BNE DA STA	\$FF	1A5A 85 1A5C 60 ; ; votecoui 1A5D A0 1A5F B1 1A61 38	FF nt (makes 05 FB	VOTECOUNT	STA RTS manent i LDY	\$FF in state vote count) #5
19EE D0 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning	B LI S n no go R	INE DA STA RTS	\$FF	1A5A 85 1A5C 60 ; ; votecour 1A5D A0 1A5F B1 1A61 38 ; check on	FF nt (makes 05 FB	VOTECOUNT	STA RTS manent i LDY LDA SEC	\$FF in state vote count) #5 (\$FB),Y
19EE D0 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03	B LI S n no go R CNLEAN LI	ENE DA STA RTS	#3	1A5A 85 1A5C 60 ; votecour 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5	FF nt (makes 05 FB n votes in	Pool	STA RTS manent i LDY LDA SEC SBC	\$FF in state vote count) #5 (\$FB),Y
19EE D0 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 18	B LI S N no go R CNLEAN LI	ENE DA ETA ETS DA CLC	#3	1A5A 85 1A5C 60 ; votecour 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0	FF (makes 05 FB votes in FF 04	Pool	STA RTS manent i LDY LDA SEC SBC BCS	\$FF in state vote count) #5 (\$FB),Y  \$FF SUBTRPOOL
19EE DO 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 18 19F8 6D 15 8F	B LI S N no go R CNLEAN LI C	DA TTS DA CLC DC	#3 PARTY	1A5A 85 1A5C 60 ; votecour 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0 1A66 C6	FF (makes 05 FB votes in FF 04 FF	pool	STA RTS manent i LDY LDA SEC SBC BCS	\$FF in state vote count) #5 (\$FB),Y
19EE D0 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 18 19F8 6D 15 8F 19FB A8	B LI S n no go R CNLEAN LI C A Ti	DA DA DA DA CLC DC AY	#3 Party	1A5A 85 1A5C 60 ; votecour 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0 1A66 C6	nt (makes 05 FB votes in FF 04 FF	VOTECOUNT pool	STA RTS manent i LDY LDA SEC SBC BCS DEC	\$FF in state vote count) #5 (\$FB),Y  \$FF SUBTRPOOL \$FF
19EE D0 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 18 19F8 6D 15 8F 19FB A8 19FC B1 FB	B LI S S N no go R CNLEAN LI C A A II LI	DA DA DA DA CLC DC AY	#3 Party	1A5A 85 1A5C 60 ; votecour 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0 1A66 C6	nt (makes 05 FB votes in FF 04 FF	VOTECOUNT pool	STA RTS manent i LDY LDA SEC SBC BCS DEC BNE	\$FF in state vote count) #5 (\$FB),Y  \$FF SUBTRPOOL \$FF VOTECOUNT
19EE DO 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 A9 19F8 6D 15 8F 19FB A8 19FB 6B 1FB ; first add basic vol	B LI S S N no go R CNLEAN LI C A TI LI	DA DA DA DA DA DC DC AY DA	#3 Party (\$FB), y	1A5A 85 1A5C 60 ; ; votecoul 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0 1A66 C6 ; subtract 1A68 D0 1A6A 91	FF  nt (makes 05 FB  n votes in FF 04 FF t one, go F3 FB	VOTECOUNT pool back SUBTRPOOL	STA RTS manent i LDY LDA SEC SBC BCS DEC BNE STA	\$FF in state vote count) #5 (\$FB),Y  \$FF SUBTRPOOL \$FF VOTECOUNT (\$FB),Y
19EE DO 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 18 19F8 6D 15 8F 19FB A8 19FC B1 FB ; first add basic vol 19FE 85 FF	B LI S S In no go R CNLEAN LI C A TI LI LI Lies S	DA STA DA CLC DC AY DA	#3 Party (\$FB),Y	1A5A 85 1A5C 60 ; ; votecoul 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0 1, subtract 1A68 D0 1A6A 91 1A6C A5	FF  nt (makes 05 FB  n votes in FF 04 FF t one, go F3 FB FF	POOL  Dack SUBTRPOOL	STA RTS manent i LDY LDA SEC SBC BCS DEC BNE STA LDA	\$FF in state vote count) #5 (\$FB),Y  \$FF SUBTRPOOL \$FF VOTECOUNT
19EE DO 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 18 19F8 6D 15 8F 19FB A8 19FC B1 FB ; first add basic vol 19FE 85 FF	B LI S S In no go R CNLEAN LI C A TI LI LI Lies S	DA STA DA CLC DC AY DA	#3 Party (\$FB),Y	1A5A 85 1A5C 60 ; votecoul 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0 1A66 C6 ; subtract 1A68 D0 1A6A 91 1A6C A5	nt (makes 05 FB votes in FF 04 FF t one, go F3 FB FF	POOL  Dack SUBTRPOOL	STA RTS manent i LDY LDA SEC SBC BCS DEC BNE STA LDA TAX	\$FF in state vote count) #5 (\$FB),Y  \$FF SUBTRPOOL \$FF VOTECOUNT (\$FB),Y \$FF
19EE DO 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 18 19F8 6D 15 8F 19FB A8 19FC B1 FB ; first add basic vol 19FE 85 FF	B LI S S In no go R CNLEAN LI C A TI LI LI Lies S	DA STA DA CLC DC AY DA	#3 Party (\$FB),Y	1A5A 85 1A5C 60 ; votecouil 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0 1A66 C6 ; subtract 1A68 D0 1A6A 91 1A6C A5 1A6E AA	FF  nt (makes 05 FB  n votes in FF 04 FF t one, go F3 FB FF	POOL  Dack SUBTRPOOL	STA RTS manent is LDY LDA SEC SBC BCS DEC BNE STA LDA TAX LDY	\$FF in state vote count) #5 (\$FB),Y  \$FF SUBTRPOOL \$FF VOTECOUNT (\$FB),Y
19EE DO 05 19F0 A9 01 19F2 85 FF ; if health < 8 ther 19F4 60 ; 2 check leaning 19F5 A9 03 19F7 18 19F8 6D 15 8F 19FB A8 19FC B1 FB ; first add basic vol 19FE 85 FF	B LI S S In no go R CNLEAN LI C A TI LI LI Lies S	DA STA DA CLC DC AY DA	#3 Party (\$FB),Y	1A5A 85 1A5C 60 ; votecoui 1A5D A0 1A5F B1 1A61 38 ;check on 1A62 E5 1A64 B0 1A66 C6 ; subtract 1A68 D0 1A6A 91 1A6C A5 1A6E AA 1A6E AA	rF nt (makes 05 FB n votes in FF 04 FF t one, go F3 FB FF	pool back SUBTRPOOL	STA RTS manent is LDY LDA SEC SBC BCS DEC BNE STA LDA TAX LDY INY	\$FF in state vote count) #5 (\$FB),Y  \$FF SUBTRPOOL \$FF VOTECOUNT (\$FB),Y \$FF
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, main de						
; main rts			1AFA A9 92	CKDEMREP	LDA	#>STPVOTES
1A8B 60	RTS		1AFC 85 FC		STA	\$FC
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subtract some health and mon	ev		1B00 85 FB		STA	\$FB
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1A8E D0 01	BNE		1B04 AA		TAX	πυ
		HLAHD				OTADTOVDD
1A90 60	RTS		1B05 F0 07		BEQ	STARTCKDR
1A91 AD 08 8F HLAHD	LDA	HEALTH	1B07 A0 05	CNCKDR	LDY	#5
1A94 38	SEC		1B09 E6 FB	CNCLOOP	INC	\$FB
1A95 E5 FF	SBC	\$FF	1B0B 88		DEY	
1A97 B0 02	BCS	LESSHEALTH	1B0C D0 FB		BNE	CNCLOOP
1A99 A9 00	LDA	#0	1B0E E8	STARTCKDR	INX	
1A9B 8D 08 8F LESSHEALT	STA	HEALTH	1B0F E0 34	O II II I O I O II	CPX	#52
1A9E 46 FF			1B11 D0 01			
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1AA0 D0 01	BNE	MNAHD	1B13 60		RTS	
1AA2 60	RTS		1B14 A0 01	CNSTCK	LDY	#1
1AA3 AD 09 8F MNAHD	LDA	MONEY	1B16 B1 FB		LDA	(\$FB),Y
1AA6 38	SEC		1B18 C8		INY	
1AA7 E5 FF	SBC	\$FF	1B19 38		SEC	
1AA9 B0 02	BCS	LESSMONEY	1B1A F1 FB		SBC	(\$FB),Y
1AAB A9 00	LDA	#0	1B1C D0 06		BNE	CKDRRESULT
				(flin floo) loonin		CKURNEGULI
1AAD 8D 09 8F LESSMONEY		MONEY	; sort of random (	ind nob) leamin	y	
1AB0 60	RTS		1B1E 20 58 1B		JSR	FLIPFLOPVOTES
;			1B21 4C 07 1B		JMP	CNCKDR
; cknostates general routine t	o check #	f of states	1B24 B0 0A	CKDRRESUL	BCS	DEMSWIN
; y will contain # of states won			1B26 EA	REPSWIN	NOP	
1AB1 AO OO CKNOSTATE	LDY	#0	1B27 49 FF		EOR	#\$FF
1AB3 A2 OF	LDX	#\$0F	1B29 18		CLC	πφιι
1AB5 AD 15 8F	LDA	PARTY	1B2A 69 01		ADC	#1
1AB8 F0 02	BEQ	CNCK	1B2C A0 80		LDY	#\$80
1ABA A2 FO	LDX	#\$F0	1B2E D0 02		BNE	CKFERENCE
; mask (for checking state leaning	na)		1B30 A0 08	DEMSWIN	LDY	#\$08
1ABC 86 FB ČNCK	STX	\$FB	1B32 85 FD	CKFERENCE	STA	\$FD
1ABE A2 34	LDX	#52	1B34 84 FE	OIN CITCINOL	STY	\$FE
1ACO CA CKNOLOOP	DEX	#32			311	ΦF.
		ONING! COD	; is margin 32 or	HOIE!	AND	WAFA
1AC1 D0 03	BNE	CNNOLOOP	1B36 29 E0		AND	#\$E0
1AC3 84 02	STY	\$02	1B38 F0 02		BEQ	CNFF16
		***				
1AC5 60	RTS	**-	1B3A D0 14		BNE	
			1B3A D0 14 1B3C 46 FF	CNFF16	BNE	DOLEANING
1AC6 BD 00 90 CNNOLOOP	LDA	REALLEAN,X	1B3A D0 14 1B3C 46 FF	CNFF16	BNE LSR	DOLEANING \$FE
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB	LDA AND	REALLEAN,X \$FB	1B3A D0 14 1B3C 46 FE 1B3E A5 FD	CNFF16	BNE	DOLEANING
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB F0 F3	lda and Beq	REALLEAN,X	1B3A D0 14 1B3C 46 FE 1B3E A5 FD ; is it 16-31?	CNFF16	BNE LSR LDA	DOLEANING \$FE \$FD
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB F0 F3 1ACD C8	LDA AND BEQ INY	REALLEAN,X \$FB CKNOLOOP	183A D0 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10	CNFF16	BNE LSR LDA AND	DOLEANING \$FE \$FD #\$10
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB F0 F3	lda and Beq	REALLEAN,X \$FB	1B3A D0 14 1B3C 46 FE 1B3E A5 FD ; is it 16-31? 1B40 29 10 1B42 F0 02	CNFF16	BNE LSR LDA AND BEQ	DOLEANING \$FE \$FD #\$10 CNFF8
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE D0 F0	LDA AND BEQ INY	REALLEAN,X \$FB CKNOLOOP	1B3A D0 14 1B3C 46 FE 1B3E A5 FD ; is it 16-31? 1B40 29 10 1B42 F0 02 1B44 D0 0A		BNE LSR LDA AND BEQ BNE	DOLEANING \$FE \$FD #\$10 CNFF8 DOLEANING
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB F0 F3 1ACD C8	LDA AND BEQ INY	REALLEAN,X \$FB CKNOLOOP	1B3A D0 14 1B3C 46 FE 1B3E A5 FD ; is it 16-31? 1B40 29 10 1B42 F0 02	CNFF16	BNE LSR LDA AND BEQ	DOLEANING \$FE \$FD #\$10 CNFF8
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1AC8 FO F3 1ACD C8 1ACE DD FO : rest (no campaigning)	LDA AND BEQ INY	REALLEAN,X \$FB CKNOLOOP	1B3A D0 14 1B3C 46 FE 1B3E A5 FD ; is it 16-31? 1B40 29 10 1B42 F0 02 1B44 D0 0A		BNE LSR LDA AND BEQ BNE LSR	DOLEANING \$FE \$FD #\$10 CNFF8 DOLEANING \$FE
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DO FO ; rest (no campaigning) ; get # of states	LDA AND BEQ INY BNE	REALLEAN,X \$FB CKNOLOOP CKNOLOOP	1B3A D0 14 1B3C 46 FE 1B3E A5 FD ; is it 16-31? 1B40 29 10 1B42 F0 02 1B44 D0 0A 1B46 46 FE 1B48 A5 FD	CNFF8	BNE LSR LDA AND BEQ BNE	DOLEANING \$FE \$FD #\$10 CNFF8 DOLEANING
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB F0 F3 1ACC C8 1ACE D0 F0 ; rest (no campaigning); get # of states 1AD0 A5 02 RESTDAY	LDA AND BEQ INY BNE	REALLEAN,X \$FB CKNOLOOP	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1!	CNFF8	BNE LSR LDA AND BEQ BNE LSR LDA	DOLEANING \$FE \$FD #\$10 CNFF8 DOLEANING \$FE \$FD
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DD FO : rest (no campaigning) ; get # of states 1AD0 A5 02 RESTDAY 1AD2 18	LDA AND BEQ INY BNE	REALLEAN,X \$FB CKNOLOOP CKNOLOOP	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 1844 29 08	CNFF8	BNE LSR LDA AND BEQ BNE LSR LDA	DOLEANING SFE SFD #\$10 CNFF8 DOLEANING SFE SFD
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DO FO : rest (no campaigning) : get # of states 1AD0 45 02 RESTDAY 1AD2 18 1AD3 6D 17 8F	LDA AND BEQ INY BNE LDA CLC ADC	REALLEAN,X \$FB CKNOLOOP CKNOLOOP	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08	CNFF8	BNE LSR LDA AND BEQ BNE LSR LDA AND BNE	DOLEANING \$FE \$FD #\$10 CNFF8 DOLEANING \$FE \$FD #\$08 DOLEANING
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DO FO : rest (no campaigning) : get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F : double basic strength + # st	LDA AND BEQ INY BNE LDA CLC ADC ates	REALLEAN,X \$FB CKNOLOOP CKNOLOOP	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-19 184A 29 08 184C DO 02 1844 FE	CNFF8 5?	BNE LSR LDA AND BEQ BNE LSR LDA AND BNE LSR	DOLEANING \$FE \$FD  #\$10 CONFEB DOLEANING \$FE #\$08 DOLEANING \$FE
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DD FO : rest (no campaigning) ; get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F 1d0uble basic strength + # st 1AD6 OA	LDA AND BEQ INY BNE LDA CLC ADC ates ASL	REALLEAN,X \$FB CKNOLOOP CKNOLOOP \$02 STREN	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08 184C DO 02 184E 46 FE 1850 A5 FE	CNFF8	BNE LSR LDA AND BEQ BNE LSR LDA AND BNE LSR LDA	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FF
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DO FO : rest (no campaigning) : get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F : double basic strength + # st 1AD6 0A 1AD7 6D 16 8F	LDA AND BEQ INY BNE LDA CLC ADC ates ASL ADC	REALLEAN,X \$FB CKNOLOOP CKNOLOOP	183A DO 14 183C 46 FE 183C 45 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-19 184A 29 08 184C DO 02 184E 46 FE 1852 9D 00 90	CNFF8 5?	BNE LSR LDA AND BEQ BNE LSR LDA AND BNE LSR LDA STA	DOLEANING \$FE \$FD  #\$10 CONFEB DOLEANING \$FE #\$08 DOLEANING \$FE
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1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DO FO : rest (no campaigning) : get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F : double basic strength + # st 1AD6 0A 1AD7 6D 16 8F	LDA AND BEQ INY BNE LDA CLC ADC ates ASL ADC	REALLEAN,X \$FB CKNOLOOP CKNOLOOP \$02 STREN	183A DO 14 183C 46 FE 183C 45 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-19 184A 29 08 184C DO 02 184E 46 FE 1852 9D 00 90	CNFF8 5?	BNE LSR LDA AND BEQ BNE LSR LDA AND BNE LSR LDA STA	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FE REALLEAN,X
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1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DD FO : rest (no campaigning) ; get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F ; double basic strength + # st 1AD6 0A 1AD7 6D 16 8F ; & add campaign eff, 2*states, 1ADA 6D 08 8F 1ADD 90 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE0 A9 FF 1AE5 AD 0A 8F 1AE8 DD 0A 1AEA A9 10	LDA AND BEQ INY BNE  LDA CLC ADC ates ASL ADC BCC CLC BCC LDA STA LDA BNE LDA	REALLEAN,X \$FB CKNOLOOP  CKNOLOOP  \$02  STREN  CAMPEFF HEALTH NEWHEALTH #\$FF HEALTH LASTSTATE ENDOHL #16	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08 184C DO 02 184E 46 FE 1850 A5 FE 1852 9D 00 90 1855 4C 07 18 1856 AD 00 90 1858 D 00 90 1868 BD 00 90 1868 BD 00 90	CNFF8 57  DOLEANING FLIPFLOPV MAKEDEM MAKEREP	BNE LSR LDA AND BEQ LSR LDA AND BNE LSR LDA AND BNE LSR LDA AND BEQ LDA BNE LDA STA STA STA	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FF  REALLEAN,X CNCKOR REALLEAN,X CNCKOR REALLEAN #\$10 STRAND #\$10 REALLEAN
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACB CB 1ACE DO FO : rest (no campaigning) : get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F : double basic strength + # st 1AD6 0A 1AD7 6D 16 8F : & add campaign eff, 2*states, 1ADA 6D 08 8F 1ADD 90 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE8 DO 08 8F 1AE8 DO 08 8F 1AE8 DO 08 8F 1AE8 DO 0A 1AEA A9 10 1AEC 6D 08 8F	LDA AND BEQ INY BNE  LDA CLC ADC ates ASL ADC health ADC CLC LDA STA LDA BNE LDA CLC ADC ADC ADC ADC ADC ADC ADC ADC ADC AD	REALLEAN,X \$FB CKNOLOOP CKNOLOOP \$02 STREN CAMPEFF HEALTH NEWHEALTH #\$FF HEALTH LASTSTATE ENDDHL #16 H16 H16 H16 H16 H16 H16 H16 H16 H16 H	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-19 1846 29 08 184C DO 02 1846 46 FE 1850 A5 FE 1852 9D 00 90 1855 AC 07 18 1855 AD 00 90 1858 29 FO 1855 A9 01 1861 DO 02 1863 A9 10 1865 A9 10 1865 AB 00 90	CNFF8 57  DOLEANING FLIPFLOPV MAKEDEM MAKEREP	BNE LSR LDA AND BNE LSR LDA AND BNE LSR LDA AND BNE LSR LDA AND BNE LSR LDA STA JMP LDA BNE LDA STA BNE LDA STA STA STA STA STA STA STA STA STA ST	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FF  REALLEAN,X CNCKOR REALLEAN,X CNCKOR REALLEAN #\$10 STRAND #\$10 REALLEAN
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DO FO : rest (no campaigning) : get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F : double basic strength + # st 1AD6 0A 1AD7 6D 16 8F : & add campaign eff, 2*states, 1ADA 6D 08 8F 1ADD 90 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE8 D0 0A 1AEA A9 10 1AEC 6D 08 8F 1AEF 8D 03	LDA AND BEQ INY BNE  LDA CLC ADC ates ASL ADC health ADC CLC LDA STA BNE LDA ADC BOC LDA ADC BOC BOC BOC BOC BOC BOC BOC BOC BOC BO	REALLEAN,X \$FB CKNOLOOP  CKNOLOOP  \$02  STREN  CAMPEFF HEALTH NEWHEALTH HASTSTATE ENDDHL #16 HEALTH ENDDHL	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-19 1848 CD 02 1844 CD 02 1846 CD 02 1846 CD 02 1846 A5 FE 1850 A5 FE 1850 A5 FE 1852 9D 00 90 1855 AC 07 18 1858 AD 00 90 1855 PO 04 1857 A9 01 1861 DO 02 1863 A9 10 1865 BD 00 90 1868 9D 00 90 1868 BD 00 90 1868 BD 00 90 1868 BD 00 90	CNFF8 5? DOLEANING FLIPFLOPV MAKEDEM MAKEREP STRAND	BNE LSR LDA AND BEQ LSR LDA AND BNE LSR LDA STA JMP LDA STA STA STA STA STA STA STA STA STA ST	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FE REALLEAN,X CNCKOR REALLEAN,X STRAND #\$10 REALLEAN
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DD FO : rest (no campaigning); get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F; double basic strength + # st 1AD6 0A 1AD7 6D 16 8F; & add campaign eff, 2*states, 1ADA 6D 08 8F 1ADD 90 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE0 A9 FF 1AE2 8D 08 8F 1AEB DO 0A 1AEA A9 10 1AEC 6D 08 8F 1AEF BO 03	LDA AND BEQ INY BNE  LDA CLC ADC ates ASL ADC health ADC BCC CLC LDA STA LDA ADC BCS STA	REALLEAN,X \$FB CKNOLOOP  CKNOLOOP  \$02  STREN  CAMPEFF HEALTH NEWHEALTH #\$FF HEALTH LASTSTATE ENDDHL #16 HEALTH ENDDHL HEALTH HEALTH HEALTH	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08 184C DO 02 184E 46 FE 1850 A5 FE 1852 9D 00 90 1858 29 F0 1855 4C 07 18 1858 AD 00 90 1858 29 F0 1850 FO 04 1857 A9 01 1861 DO 02 1863 A9 10 1865 BD 00 90 1868 9D 00 90 1868 9D 00 90 1868 60	CNFF8 5?  DOLEANING FLIPFLOPV MAKEDEM MAKEREP STRAND	BNE LDA AND BNE LSR LDA AND BNE LSR LDA AND BNE LSR LDA STA AND BNE LSR LDA AND BNE LDA AND BLOA AND BLOA AND BNE LDA BNE BNE LDA BNE BNE LDA BNE	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 BOLEANING \$FE \$FE \$FE \$FE \$FE REALLEAN,X CNCKOR REALLEAN,X STRAND #\$10 REALLEAN REALLEAN,X STRAND REALLEAN,X STRAND STRAND REALLEAN,X STRAND STRAND REALLEAN,X STRAND
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DD FO : rest (no campaigning) ; get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F ; double basic strength + # st 1AD6 0A 1AD7 6D 16 8F ; & add campaign eff, 2*states, 1ADA 6D 08 8F 1ADD 90 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE9 DO 0A 1AEA A9 10 1AEC 6D 08 8F 1AEF BD 03 1AF1 8D 08 8F 1AEF BD 03 1AF1 8D 08 8F 1AEF BO 03	LDA AND BEQ INY BNE  LDA CLC ADC ates ADC health ADC CLC ADC LDA BNE LDA BNE LDA BNE LDA BNE LDA LDA BNE LDA	REALLEAN,X \$FB CKNOLOOP  CKNOLOOP  \$02  STREN  CAMPEFF  HEALTH NEWHEALTH LASTSTATE ENDDHL #16 HEALTH ENDDHL H16 HEALTH ENDDHL H16 HEALTH ENDDHL HEALTH ENDDHL HEALTH ENDDHL HEALTH ENDDHL HEALTH ENDDHL HEALTH ENDDHL HEALTH #0	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08 184C DO 02 184E 46 FE 1850 A5 FE 1852 9D 00 90 1855 4C 07 18 1858 AD 00 90 1858 29 FO 1850 FO 04 185F A9 01 1861 DO 02 1863 A9 10 1865 8D 00 90 1868 BD 00 90 1868 BD 00 90 1868 BD 00 90 1868 60 ; transleancolr 186C A2 34	CNFF8 5?  DOLEANING FLIPFLOPV  MAKEDEM  MAKEREP STRAND  translates state TRANSLEAN	BNE LDA AND BEQ BNE LSR LDA AND BNE LDA STA JUDA AND BEQ LDA AND BEQ LDA STA STA STA STA STA STA STA STA STA ST	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FE REALLEAN,X CNCKOR REALLEAN,X STRAND #\$10 REALLEAN
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DO FO : rest (no campaigning) : get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F : double basic strength + # st 1AD6 0A 1AD7 6D 16 8F : & add campaign eff, 2*states, 1ADD 46 00 8 1ADD 80 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE8 D0 0A 1AEA A9 10 1AEC 6D 08 8F 1AEF B0 03 1AF1 8D 08 8F 1AEF B0 03 1AF1 8D 08 8F 1AEF B0 03 1AF1 8D 08 8F 1AEA 90 01 1AF6 8D 0A 8F	LDA AND BEQ INY BNE  LDA CLC ADC ates ASL ADC health ADC LDA STA ADC BCC LDA BNE LDA CLC ADC ADC ADC ADC ADC ADC ADC ADC ADC AD	REALLEAN,X \$FB CKNOLOOP  CKNOLOOP  \$02  STREN  CAMPEFF HEALTH NEWHEALTH #\$FF HEALTH LASTSTATE ENDDHL #16 HEALTH ENDDHL HEALTH HEALTH HEALTH	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-19 184A 29 08 184C DO 02 184E 46 FE 1850 A5 FE 1852 9D 00 90 1855 AC 07 18 1858 AD 00 90 1855 A9 10 1861 DO 02 1863 A9 10 1865 BD 00 90 1868 9D 00 90 1868 9D 00 90 1868 9D 00 90 1868 00 90 1868 CA	CNFF8 5?  DOLEANING FLIPFLOPV MAKEDEM MAKEREP STRAND	BNE LDA AND BNE LSR LDA AND BNE LSR LDA STA AND BNE LDA STA STA STA STA STA STA STA STA STA ST	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FE REALLEAN,X CNCKOR REALLEAN,X CNCKOR REALLEAN #\$10 REALLEAN #\$10 REALLEAN #\$10 REALLEAN REALLE
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DD FO : rest (no campaigning) ; get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F ; double basic strength + # st 1AD6 0A 1AD7 6D 16 8F ; & add campaign eff, 2*states, 1ADA 6D 08 8F 1ADD 90 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE9 DO 0A 1AEA A9 10 1AEC 6D 08 8F 1AEF BD 03 1AF1 8D 08 8F 1AEF BD 03 1AF1 8D 08 8F 1AEF BO 03	LDA AND BEQ INY BNE  LDA CLC ADC ates ADC health ADC CLC ADC LDA BNE LDA BNE LDA BNE LDA BNE LDA LDA BNE LDA	REALLEAN,X \$FB CKNOLOOP CKNOLOOP \$02 STREN CAMPEFF HEALTH NEWHEALTH LASTSTATE ENDDHL #16 HEALTH ENDDHL H16 HEALTH H16 HEALTH H16 HEALTH H16 HEALTH H16 H16 H16 H16 H16 H16 H16 H1	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08 184C DO 02 184E 46 FE 1850 A5 FE 1852 9D 00 90 1858 29 FO 1855 AC 07 18 1858 AD 00 90 1858 29 FO 1850 FO 04 1851 A9 01 1861 DO 02 1863 A9 10 1865 AD 00 90 1868 9D 00 90 1868 9D 00 90 1868 60 : transleancoir 186C A2 34 186E CA	CNFF8 5?  DOLEANING FLIPFLOPV  MAKEDEM  MAKEREP STRAND  translates state TRANSLEAN	BNE LDA AND BNE LSR LDA AND BNE LSR LDA AND BNE LSR LDA STA AND BNE LSR LDA STA AND LDA AND BNE LDA AND BNE LDA AND BNE LDA BN	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 BOLEANING \$FE \$FE \$FE \$FE REALLEAN,X CNCKOR REALLEAN,X STO MAKEREP #\$01 STRAND #\$10 REALLEAN,X STO STRAND #\$10 FEALLEAN,X
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACB CB 1ACE DD FO  rest (no campaigning) get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F double basic strength + # st 1AD6 0A 1AD7 6D 16 8F & add campaign eff, 2*states, 1ADA 6D 08 8F 1ADD 90 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE8 D0 0A 1AEA A9 10 1AEC 6D 08 8F 1AEB 00 0A 1AEA A9 10 1AEC 6D 08 8F 1AEF BO 03 1AF1 8D 08 8F 1AEF BO 03 1AF1 8D 08 8F 1AEF BO 03 1AF1 8D 08 8F 1AF4 A9 00 1AF6 8D 0A 8F 1AF9 60	LDA AND BEQ INY BNE  LDA CLC ADC ates ASL ADC health ADC LDA STA ADC BCC LDA BNE LDA CLC ADC ADC ADC ADC ADC ADC ADC ADC ADC AD	REALLEAN,X \$FB CKNOLOOP CKNOLOOP \$02 STREN CAMPEFF HEALTH NEWHEALTH LASTSTATE ENDDHL #16 HEALTH ENDDHL H16 HEALTH H16 HEALTH H16 HEALTH H16 HEALTH H16 H16 H16 H16 H16 H16 H16 H1	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08 184C DO 02 184E 40 02 184E 46 FE 1850 A5 FE 1852 9D 00 90 1855 4C 07 18 1856 AD 00 1855 PO 04 1850 FO 04 1851 B0 00 90 1868 9D 00 90 1868 9D 00 90 1868 BO 00 1868 BO 00 1868 CA 1866 CA 1867 FO 12 1867 BD 00 90	CNFF8 57  DOLEANING FLIPFLOPV  MAKEDEM MAKEREP STRAND  translates state TRANSLEAN TRANSILOO	BNE LSR LDA AND BNE LSR LDA AND BNE LDA AND BEQ LDA AND BEQ LDA BNE LD	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FD  #\$08 MACENING \$FE \$FE REALLEAN,X CNCKDR REALLEAN,X CNCKDR REALLEAN #\$10 MAKEREP #\$01 \$TRAND #\$10 REALLEAN,X EN to color table #52  ENDOTRANS REALLEAN,X
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACB CB 1ACE DD FO  rest (no campaigning) get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F double basic strength + # st 1AD6 0A 1AD7 6D 16 8F & add campaign eff, 2*states, 1ADA 6D 08 8F 1ADD 90 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE8 D0 0A 1AEA A9 10 1AEC 6D 08 8F 1AEB 00 0A 1AEA A9 10 1AEC 6D 08 8F 1AEF BO 03 1AF1 8D 08 8F 1AEF BO 03 1AF1 8D 08 8F 1AEF BO 03 1AF1 8D 08 8F 1AF4 A9 00 1AF6 8D 0A 8F 1AF9 60	LDA AND BEQ INY BNE  LDA CLC ADC ates ASL ADC health ADC LDA STA ADC BCC LDA BNE LDA CLC ADC ADC ADC ADC ADC ADC ADC ADC ADC AD	REALLEAN,X \$FB CKNOLOOP CKNOLOOP \$02 STREN CAMPEFF HEALTH NEWHEALTH LASTSTATE ENDDHL #16 HEALTH ENDDHL H16 HEALTH H16 HEALTH H16 HEALTH H16 HEALTH H16 H16 H16 H16 H16 H16 H16 H1	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08 184C DO 02 184E 46 FE 1850 A5 FE 1852 9D 00 90 1858 29 FO 1855 AC 07 18 1858 AD 00 90 1858 29 FO 1850 FO 04 1851 A9 01 1861 DO 02 1863 A9 10 1865 AD 00 90 1868 9D 00 90 1868 9D 00 90 1868 60 : transleancoir 186C A2 34 186E CA	CNFF8 57  DOLEANING FLIPFLOPV  MAKEDEM MAKEREP STRAND  translates state TRANSLEAN TRANSILOO	BNE LSR LDA AND BNE LSR LDA AND BNE LDA AND BEQ LDA AND BEQ LDA BNE LD	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FD  #\$08 MACENING \$FE \$FE REALLEAN,X CNCKDR REALLEAN,X CNCKDR REALLEAN #\$10 MAKEREP #\$01 \$TRAND #\$10 REALLEAN,X EN to color table #52  ENDOTRANS REALLEAN,X
1AC6 BD 00 90 CNNOLOOP 1AC9 25 FB 1ACB FO F3 1ACD C8 1ACE DO FO : rest (no campaigning) : get # of states 1AD0 A5 02 RESTDAY 1AD2 18 1AD3 6D 17 8F : double basic strength + # st 1AD6 0A 1AD7 6D 16 8F : & add campaign eff, 2*states, 1ADD 46 00 8 1ADD 80 03 1ADF 18 1AE0 A9 FF 1AE2 8D 08 8F 1AE8 D0 0A 1AEA A9 10 1AEC 6D 08 8F 1AEF B0 03 1AF1 8D 08 8F 1AEF B0 03 1AF1 8D 08 8F 1AEF B0 03 1AF1 8D 08 8F 1AEA 90 01 1AF6 8D 0A 8F	LDA AND BEQ INY BNE  LDA CLC ADC ates ASL ADC health ADC LDA STA ADC BCC LDA BNE LDA CLC ADC ADC ADC ADC ADC ADC ADC ADC ADC AD	REALLEAN,X \$FB CKNOLOOP CKNOLOOP \$02 STREN CAMPEFF HEALTH NEWHEALTH LASTSTATE ENDDHL #16 HEALTH ENDDHL H16 HEALTH H16 HEALTH H16 HEALTH H16 HEALTH H16 H16 H16 H16 H16 H16 H16 H1	183A DO 14 183C 46 FE 183E A5 FD ; is it 16-31? 1840 29 10 1842 FO 02 1844 DO 0A 1846 46 FE 1848 A5 FD ; is it maybe 8-1! 184A 29 08 184C DO 02 184E 40 02 184E 46 FE 1850 A5 FE 1852 9D 00 90 1855 4C 07 18 1856 AD 00 1855 PO 04 1850 FO 04 1851 B0 00 90 1868 9D 00 90 1868 9D 00 90 1868 BO 00 1868 BO 00 1868 CA 1866 CA 1867 FO 12 1867 BD 00 90	CNFF8 57  DOLEANING FLIPFLOPV  MAKEDEM MAKEREP STRAND  translates state TRANSLEAN TRANSILOO	BNE LSR LDA AND BNE LSR LDA AND BNE LDA AND BEQ LDA AND BEQ LDA BNE LD	DOLEANING \$FE \$FD  #\$10 CNFF8 DOLEANING \$FE \$FD  #\$08 DOLEANING \$FE \$FD  #\$08 MACENING \$FE \$FE REALLEAN,X CNCKDR REALLEAN,X CNCKDR REALLEAN #\$10 MAKEREP #\$01 \$TRAND #\$10 REALLEAN,X EN to color table #52  ENDOTRANS REALLEAN,X

1B76 F0 04 1B78 A9 43 1B7A D0 02 1B7C A9 82 1B7E 9D C0 37 1B81 D0 EB 1B83 60	DEMLEAN REPLEAN STRLEAN	BEQ LDA BNE LDA STA	REPLEAN #67 STRLEAN #130 LEANTABLE.X	1C06 86 FF 1C08 20 17 1C 1C08 20 2C 1A 1C0E 46 FF 1C10 20 5D 1A 1C13 4C FB 1B 1C16 60 RUMENDL 1C17 20 CF 19 GOOYRUM 1C1A 20 26 1A 1C1D 60	STX JSR JSR LSR JSR	\$FF GOOYRUM ISSCHECK \$FF VOTECOUNT
1B81 D0 EB 1B83 60	ENDOTRANS	BNE RTS	TRANSILOOP	1C13 4C FB 1B 1C16 60 RUMENDL 1C17 20 CF 19 GOOYRUM	JMP RTS JSR	CAMLINK SETZPP
; tglparty switch: 1884 AD 15 8F 1887 48 1888 A2 3F 1880 B0 80 8F 1890 BD 00 8F 1893 9D 40 8F 1899 9D 00 8F 1899 9D 00 8F 1896 CA 189D DE B1 1896 AD 09 8F 1897 68 1898 BD 7F 24 1898 85 F9 1898 C6 F9 1898 AD 7F 24 1898 85 F9 1898 C6 F9 1898 AD 7F 24 1898 85 F9 1898 C6 F9 1898 AD 7F 24 1898 85 F9 1898 C6 F9 1898 AD 7F 24 1898 85 F9 1898 C6 F9 1898 AD 7F 24 1898 85 F9 1898 C6 F9 1898 AD 7F 1898 85 F9 1898 C6 F9 1898 AD 7F 1898 85 F9 1898 C6 F9 1898 AD 7F 1898 85 F9 1898 C6 F9 1898 AD 7F 1898 85 F9 1898 C6 F9 1898 AD 7F 1898 85 F9 1898 AD 7F 1898 85 F9 1898 AD 7F 1898	es banks in ar TGLPARTY	nd out LDA PHA	PARTY	1C17 20 CF 19 1C1A 20 26 1A 1C1D 60    bkcm.select     C1E	JSR RTS	DCDCFF
1B88 A2 3F 1B8A BD 40 8F	TGLOOP	LDX LDA	#63 OTHERCAND,X	bkcm.select		#2F00
1B90 BD 00 8F 1B93 9D 40 8F		LDA STA	DAY,X OTHERCAND,X	1C1E DEFSPU 1C1E DEFSP1 1C1E SPRCOL	=	\$3F00 \$3F40 \$D027
1B96 BD 80 8F 1B99 9D 00 8F		LDA STA	CANSTACK,X DAY,X	1C1E SPRHOR 1C1E SPRVER	=	\$D01D \$D017 \$D000
1B9D D0 EB 1B9F 68		BNE PLA	TGL00P	1C1E SPRMSB 1C1E SPRTOG		\$D000 \$D010 \$D015
1BA0 49 01 1BA2 8D 15 8F		EOR STA RTS	#1 Party	1C1E SPRLOCX 1C1E SPRLOCY : setsel sets up sprites	=	\$D000 \$D001
; do television ads 1BA6 AD 09 8F	TELEVISI	LDA	MONEY	1C1E A2 00 SETSEL 1C20 A9 00	LDX LDA	#0 #0
1BA9 C9 28 1BAB 90 43 1BAD AE 20 8F		CMP BCC LDX	#40 ENDTVS CURREG	1C22 9D 00 3F ZEROUT 1C25 CA 1C26 D0 FA	SIA DEX BNE	DEFSP0,X ZEROUT
1BB0 BD 7F 24 1BB3 85 FA		LDA STA	REGFIRST,X \$FA	1C28 A9 00 FILSPO 1C2A AA	LDA TAX	#0
1BB6 BD 7F 24 1BB9 85 F9		LDA STA	REGFIRST,X \$F9	1C2C B9 OA 1F CNFIL 1C2F 9D 00 3F	LDA STA	SPDATO,Y DEFSPO,X
1BBB C6 F9 1BBD AD 24 25 1BC0 0A	TLVL00P	DEC LDA ASL	\$F9 WEEKNO	1C32 B9 12 1F 1C35 9D 40 3F 1C38 E8	LDA STA INX	SPDAT1,Y DEFSP1,X
1BC1 18 1BC2 6D 19 8F		CLC ADC	TVADS	1C39 E8 1C3A E8 1C3B C8	INX INX	
1BC7 E6 F9 1BC9 A5 F9		INC LDA	\$F9 \$F9	1C3C C0 07 1C3E D0 EC	CPY BNE	#7 CNFIL
1BCB C5 FA 1BCD F0 0E 1BCF 20 17 1C		CMP BEQ JSR	\$FA SUBTRTMON GOOYRUM	1C40 B9 OA 1F 1C43 9D OO 3F 1C46 9D O1 3F	LDA STA STA	SPDATO,Y DEFSP0,X DEFSP0+1,X
1BD2 46 FF 1BD4 20 5D 1A		LSR JSR	\$FF VOTECOUNT	1C49 9D 02 3F 1C4C B9 12 1F	STA LDA	DEFSP0+2,X SPDAT1,Y
1BDA 4C BD 1B 1BDD AD 09 8F	SUBTRTMON	JSH JMP LDA	TLVLOOP MONEY	; sprites 0 & 1 are set up 1C52 A9 FC	LDA	DEFSP1,X #252
1BE0 38 1BE1 ED 19 8F 1BE4 90 05		SEC SBC BCC	TVADS ESCRIT	1C54 8D F8 07 1C57 A9 FD : set pointers	sta LDA	2040 #253
1BE6 ED 19 8F 1BE9 B0 02	FOORIT	SBC BCS	TVADS ITCOSTS	1C59 8D F9 07 1C5C A2 07	STA LDX	2041 #7
1BED 8D 09 8F 1BF0 4C 73 19	ITCOSTS ENDTVS	STA JMP	# 1 MONEY NEXDAY	; set all colors to medium gray 1C5E A9 OC 1C60 9D 27 DO COLSPRT	LDA STA	#12 SPRCOL,X
; camponce/first pi	ut base into ca	instack -	⊦1 #0	1C63 CA 1C64 10 FA 1C66 A9 01	DEX BPL	COLSPRT #1
1BF5 AO 34 1BF7 86 F9	CAMPREGK	LDY STX	#52 \$F9	1C68 8D 1D D0 1C68 89 01	STA LDA	SPRHOR #1
ibty 84 tA ; x = first (-1), 1BFB E6 F9	y is last (+1) CAMLINK	INC	\$F9	100 00 10 00 1070 A9 04 1072 8D 00 D0	STA LDA STA	SPRMSB #\$04 SPRLOCX
1BFD A5 F9 1BFF C5 FA		LDA CMP	\$F9 \$FA	1C75 A9 32 1C77 8D 01 D0	LDA STA	#\$32 SPRLOCY #54
1001 FU 13 1003 AE 81 8F		LDX	CANSTACK+1	1C7C 8D 02 D0	STA	#54 SPRLOCX+2

1C7F A9 38	LDA	#56	1D15 29 10	AND	#16
1C81 8D 03 D0	STA	SPRLOCY +2	1D17 D0 07	BNE	SELDONE
1C84 A9 00	LDA	#0	1D19 A9 OC	LDA	#12
1C86 A0 04	LDY	#4	1D1B 8D 27 D0	STA	SPRCOL
1C88 99 02 1F ZRSPR1	STA	SPX1,Y	1D1E D0 B0	BNE	SELLOOP
108B 88	DEY	700004	1D20 AD 15 DO SELDONE	LDA	SPRTOG
1000 10 FA 1005 AO 22	BPL	ZHOPKI #= MADAMAD	1023 29 FE	AND	#254
100E A9 22 1000 8D 07 1F	CTA	#>IVIAPAIVIAP	1D20 0D 10 DU	SIA	SPRIUG ¢ED
1C93 A9 AD	LDA	# <mapamap< td=""><td>: a now holds select</td><td>LDA</td><td>φiD</td></mapamap<>	: a now holds select	LDA	φiD
1C95 8D 06 1F	STA	MAPA1	1D2A 60	RTS	
1C98 A9 36	LDA	#>MAPTABLE	;		
1C9A 8D 09 1F	STA	MAPT1+1	1D2B A2 07 MAPMAGIC	LDX	· <b>#</b> 7
1C9D A9 00	LDA	# <maptable< td=""><td>1D2D BD 02 1F MAGPIE</td><td>LDA</td><td>SPX1,X</td></maptable<>	1D2D BD 02 1F MAGPIE	LDA	SPX1,X
1097 8D 08 1F	SIA	MAPIT	1D30 95 F/	SIA	\$F7,X
10A2 60	nis		1032 GA 1032 10 E0	DEX	MACDIE
1CA3 A9 00 SELECT	I DA	#0	1D35 10 10 1D35 A9 01	I DA	#1
1CA5 85 FD	STA	\$FD	1D37 8D 28 D0	STA	SPRCOL + 1
1CA7 A9 04	LDA	#4	1D3A AD 15 D0	LDA	SPRTOG
1CA9 8D 00 D0	STA	SPRLOCX	1D3D 09 02	ORA	#2
1CAC 98	TYA		1D3F 8D 15 D0	STA	SPRTOG
1CAD 20 FA 1E	JSR	LOC50	; sprite is turned on		
1CBU 85 FC	SIA	\$FC	1D42 20 1A 1F GTKEYB	JSR	IJKL
1002 0A 1002 00 EA 1E	IAA	LOCEO	1040 AD 08 IF	LUA	JB CTVCVD
1CB6 85 FR	STA	\$FR	1D46 FU F6 1D46 66	BUB BUB	GINETE
: sets max & min	01/1	ΨΙΟ	1D4B B0 14	BCS	MAGUP
1CB8 8D 01 D0	STA	SPRLOCY	1D4D 6A	ROR	
1CBB A9 0C	LDA	#12	1D4E B0 43	BCS	MAGDN
1CBD 8D 27 D0	STA	SPRCOL	1D50 6A	ROR	
1CCU AD 10 D0	LDA	SPRMSB	1D51 B0 6E	BCS	MAGLF
1005 09 01	CTA	#I	1D53 bA	KUK	HADTOL
1003 0D 10 D0	IDA	SPRING	1D54 BU U5 1D56 6A	DOD DOD	JIVINIPL
1CCB 09 01	ORA	#1	1D57 R0 05	RCS	IMONPI
1CCD 8D 15 D0	STA	SPRTOG	1D59 90 E7	BCC	GTKEYB
1CD0 20 1A 1F SELLOOP	JSR	IJKL	1D5B 4C F0 1D JMRTPL	JMP	MAGRT
1CD3 AD 6B 1F	LDA	JB	1D5E 4C E7 1E JMDNPL	JMP	MAGDONE
1CD6 F0 F8	BEQ	SELLOOP	1D61 A5 F8 MAGUP	LDA	\$F8
1008 29 13	ANU	#19	1D63 F0 DD	BEQ	GTKEYB
100A FU F4	TAY	SELLOUP	1D60 AD 03 D0	CEC	SPHLUUT +2
1CDD 29 10	AND	#16	1D69 F9 04	SBC	#4
1CDF D0 27	BNE	SELBUTTON	1D6B 8D 03 D0	STA	SPRLOCY+2
1CE1 8A	TXA		1D6E C6 F8	DEC	\$F8
1CE2 29 01	AND	#1	1D70 A5 F8	LDA	\$F8
1CE4 FU 11	BEQ	SELDN	1D72 6A	ROR	
10E0 AD 01 D0 SELUP	CMD	SPREUGT RED	1D73 BU U3	IMD BUS	CUNII
1CEB FO E3	BFO	SELLOOP	1D78 A5 FD CONIT	IDA	\$FD
1CED C6 FD	DEC	\$FD	1D7A F9 1A	SBC	#26
1CEF 38	SEC		1D7C 85 FD	STA	\$FD
1CF0 E9 08	SBC	#\$08	1D7E B0 02	BCS	DNZMAP
1CF2 8D 01 D0	STA	SPRLOCY	1D80 C6 FE	DEC	\$FE
1015 DU D9	RNE	SELLUUP	1D82 A5 FB DNZMAP	LDA	\$FB
1CFA C5 FC	CMD	SEC	1D04 30 1D85 FQ 10	SEC	#25
1CFC FO D2	BEQ	SELLOOP	1D87 85 FB	STA	\$FR
1CFE E6 FD	INC	\$FD	1089 90 03	BCC	DCF
1D00 18	CLC		1D8B 4C 24 1E	JMP	STATENE
1D01 69 08	ADC	#\$08	1D8E C6 FC DCF	DEC	\$FC
1D03 8D 01 D0	STA	SPRLOCY	1D90 4C 24 1E	JMP	STATENE
1000 DU C8	RNE	SELLOUP	1D93 A5 F8 MAGDN	LDA	\$1-8
through to plack color	LUA	#U	1090 C9 10 1007 F0 A0	CIMP	#29 CTKEVD
1D0A 8D 27 D0	STA	SPRCOL	1D99 AD 03 D0	I DA	SPRI OCY + 2
1D0D 20 1A 1F SELSURE	JSR	IJKL	1D9C 18	CLC	5.7.6007 7 2
1D10 AD 6B 1F	LDA	JB	1D9D 69 04	ADC	#4
1D13 F0 F8	BEQ	SELSURE	1D15 29 10 1D17 D0 07 1D19 A9 0C 1D18 8D 27 D0 1D16 D0 80 1D20 AD 15 D0 SELDONE 1D23 29 FE 1D25 8D 15 D0 1D28 A5 FD 1D28 A5 FD 1D28 A5 FD 1D30 95 F7 1D32 CA 1D33 10 F8 1D35 A9 01 1D37 8D 28 D0 1D37 8D 28 D0 1D38 AD 15 D0 1D38 AD 15 D0 1D39 AD 15 D0 1D39 02 1D3F 8D 15 D0 1D3P 8D 15	STA	SPRLOCY+2

1DA2 E6 F8		INC	\$F8	1E2B 90 04		BCC	CKXVOSP
1DA4 A5 F8		LDA	\$F8	1E2D 06 F9		ASL	\$F9
1DA6 6A		ROR		1E2F 06 F9		ASL	\$F9
1DA7 B0 7B		BCS	STATENE	1E31 A5 F7	CKXVOSP	LDA	\$F7
1DA9 A5 FD		LDA	\$FD	1E33 6A		ROR	
1DAB 69 1A		ADC	#26	1E34 B0 02		BCS	CONSF
1DAD 85 FD		STA	\$FD	1E36 06 F9		ASL	\$F9
1DAF 90 02		BCC	UPZMAP	; \$f9 contains ma	tcher		
1D81 E6 FE		INC	\$FE	1E38 A0 00	CONSF	LDY	#0
1D83 A5 FB	LIPZMAP	LDA	\$FB	1E3A B1 FB		LDA	(\$FB),Y
1DB5 18	J	CLC	• •	1E3C 85 02		STA	\$02
1DB6 69 19		ADC	#25	1F3F A5 F9		LDA	\$F9
1DB8 85 FR		STA	\$FR	1F40 31 FD		AND	(\$FD).Y
1DBA 00 68		BCC	STATENE	1E42 D0 26		RNF	NOMESSES
100A 50 00		INIC	&EU.	1E44 AQ CO		IDA	#\$C0
1DDC E0 FC		INC	CTATEME	1E46 24 02		RIT	\$02
100E 40 24 IE	MAACLE	TIME	OE7	1E40 24 02		RMI	MAYROCEAN
1DC1 A3 F7	WAGLE	DNE	ΦΓ1	1E40 30 0D		LDV	<b>\$0</b> 2
1003 00 03		DIVE	OTIVEVE	1E4A AJ UZ		AND	₩¢3E
1005 40 42 10	OL HILLY	JMP	CODLOCY LO	1E4U 29 3F		TAV	πφοι
IDC8 AD 02 D0	GHIKK	LUA	SPRLUCX +2	1E4E AA		IAA	CECTADI E V
1DCB 38		SEU	4	1E4F BD /6 22		CTA	OCCIADLE,A
1DCC E9 04		SBC	#4	1E52 85 02		SIA	DUZ NOMECCETO
1DCE 8D 02 D0		SIA	SPRLOCX + 2	1E54 4U 6A 1E		JMP	NUMESS15
1DD1 C6 F7		DEC	\$F7	1E57 50 07	MAYBUCEAN	BAC	TEKJUNK
1DD3 A5 F7		LDA	\$F7	1E59 A9 00		LDA	#0
1DD5 6A		ROR		1E5B 85 02		STA	\$02
1DD6 90 4C		BCC	STATENE	1E5D 4C 6A 1E		JMP	NOMESSTS
1DD8 A5 FD		LDA	\$FD	1E60 A5 02	TERJUNK	LDA	\$02
1DDA E9 01		SBC	#1	1E62 29 3F		and	#\$3F
1DDC 85 FD		STA	\$FD	1E64 AA		TAX	
1DDE BO 02		BCS	DCZMAP	1E65 BD 79 22		LDA	Tertable,X
1DF0 C6 FF		DEC	\$FE	1E68 85 02		STA	\$02
1DF2 A5 FB	DC7MAP	LDA	\$FB	: found the state	(\$02) print it		
1DF4 38	502.711.11	SEC	<b>V</b> . <b>J</b>	1E6A A2 OF	NOMESSTS	LDX	#15
1DE5 E9 01		SBC	#1	1F6C AO 10		LDY	#16
1DE7 85 FR		STA	\$FR	1F6F 18		CLC	
1DE0 BO 30		RCS	STATENE	not routine to s	et cursor	020	
1DED OF EC		DEC	&EU.	1565 20 50 FF	01 001001	JSR	\$FFF0
1DED 40 24 1E		IMP	CTATEME	1F72 AQ Q5		I DA	#149
1DED 40 24 IL	MACOT	TIM	ec7	1674 20 D2 FF		ISR	\$FFD2
100 00 21	MAGNI	CMAD	π40 Φ1 1	1E77 AQ 20		I DA	#32
1002 09 31		DNE	#43 CUM	1E70 A2 D7		IDX	#7
1000 40 40 10		DINE	CTIVEVD	1E7D 20 D2 EE	BI MKWDW	ISB	SEED2
1DF0 4C 42 1D	CLINA	JIVIP	CDDIOCATO	1E7E CA	DENINVEDIV	DEX	WIT DZ
1DF9 AD UZ DU	GHW	LUA	SPRLUGATZ	1676 UA		DDI	BI VIKWOW
1DFC 18		ULU ADD		1E/F 10 FA		I DA	#157
1010 69 04		ADU	#4 000100V + 0	1E01 A9 9D		LDV	#1J1 #7
1DFF 8D 02 D0		SIA	SPRLUCX+2	1E03 AZ U/	CLIDINADIA	LDV	#/ #EED2
1E02 E6 F7		INC	\$F7	1E80 20 DZ FF	CURRYDW	JOH	ΦΓΓU2
1E04 A5 F7		LUA	\$F7	1E88 CA		DEV	CHDIAMDIM
1E06 6A		ROR		1E89 10 FA		BPL	COHMANDAA
1E07 90 03		BCC	CONRQ	1E8B A5 U2		LDA	<b>Φ</b> U2
1E09 4C 24 1E		JMP	STATENE	1E8D D0 03		RIVE	GHWW
1EOC A5 FD	CONRQ	LDA	\$FD	1E8F 4C 42 1D	******	JMP	GIKEYB
1E0E 69 01		ADC	#1	1E92 29 3F	GHWW	AND	#\$3F
1E10 85 FD		STA	\$FD	1E94 OA		ASL	
1E12 90 02		BCC	Inzmap	1E95 AA		IAX	OT111115 V
1E14 E6 FE		INC	\$FE	1E96 BD DC 21		LDA	SINAME,X
1E16 A5 FB	INZMAP	LDA	\$FB	1E99 20 D2 FF		JSR	\$FFD2
1E18 18		CLC		1E9C BD DD 21		LDA	STNAME + 1,X
1E19 69 01		ADC	#1	1E9F 20 D2 FF		JSR	\$FFD2
1E1B 85 FB		STA	\$FB	1EA2 A9 20		LDA	#32
1E1D 90 05		BCC	STATENE	1EA4 20 D2 FF		JSR	\$FFD2
1E1F E6 FC		INC	\$FC	1EA7 BD 00 78		LDA	STEVOTE,X
1E21 4C 24 1F		JMP	STATENE	1EAA AA		TAX	
:				1EAB C9 0A		CMP	#10
now check for c	haracter shane.	sec & 1	ter, and state #	1EAD B0 05		BCS	EVPX
1F24 A9 01	STATENE	LDA	#1	1EAF A9 20		LDA	#32
1F26 85 F9	<b></b>	STA	\$F9	1EB1 20 D2 FF		JSR	\$FFD2
1F28 A5 F8		LDA	\$F8	1EB4 A9 00	EVPX	LDA	#0
1F2A 4A		LSR	\$F8 \$F8 \$TATENE \$FD #26 \$FD #26 \$FD #27 \$FFB #25 \$FB #27 \$FB \$FD \$FD \$FD \$FD #1 \$FD #1 \$FB \$FD #1 \$FB \$FC \$FT \$FT  CONRO \$TATENE \$FT #49 \$GHW \$GTKEYB \$PRLOCX + 2 \$FF \$FF  #1 \$FB \$FF #1 \$FB \$FF #1 \$FB \$FF #1	1EB6 20 CD BD		JSR	\$BDCD
771							

1EB9 A9 1D		LDA	#29	1F40 B0 D8		BCS	IJKL
1EBB 20 D2 FF		JSR	\$FFD2	1F42 8A		TXA	
1EBE A9 90		LDA	#144	1F43 29 02		AND	#2
1EGU 20 D2 FF		J5K	\$FFU2 #18	1F45 FU U4		TYA	CLIJKL
: cr/blk/reverseon		LUA	#10	1F48 49 01		FOR	#1
1EC5 20 D2 FF		JSR	\$FFD2	1F4A AA		TAX	
1EC8 A9 A0		LDA	#160	1F4B A9 00	CLIJKL	LDA	#0
1ECA 20 D2 FF		JSR	\$FFD2	1F4D 8D 6B 1F		STA	JB
1ECD A5 02		LUA	\$02 #635	1F50 38	MADIZII	SEC	
1EUF 29 3F		IDX	# <b>\$</b> 3F #0	1F51 ZA 1F52 CA	WARKIJ	DEX	
1ED3 E8	RGNM	INX	# <b>U</b>	1F53 D0 FC		BNE	MARKIJ
1ED4 DD 7F 24		CMP	REGFIRST,X	1F55 8D 6B 1F	DEBOUNCE	STA	JB
1ED7 B0 FA		BCS	RGNM	1F58 AD 00 DC	DEBLOP	LDA	\$DC00
1ED9 8A		IXA	#47C	1F5B 2D 01 DC		AND	\$DC01
1EDA 09 BU		ADC	#1/0 ¢EED2	1F3E 29 10 1E60 E0 E6		AND	# ID
1FDF A9 92		I DA	#146	1F62 A9 06		IDA	#6
1EE1 20 D2 FF		JSR	\$FFD2	1F64 65 A2		ADC	\$A2
1EE4 4C 42 1D		JMP	GTKEYB	1F66 C5 A2	DLP33	CMP	\$A2
1EE7 AD 15 DO	MAGDONE	LDA	SPRTOG	1F68 D0 FC		BNE	DLP33
1EEA 29 FD		AND	#253	1F6A 60	ID.	RTS	00
1EEC 80 13 00		LDY	5PR106	1F0B UU 1E6C 20 EA 1A	DE ECTIONE	.BTIE	CKUEWIDED
1EF1 B5 F7	MAGPIX	LDA	\$F7.X	1F6F 20 B1 1A	LLLCTIOND	JSR	CKNOSTATES
1EF3 9D 02 1F		STA	SPX1,X	; number of state	s won		00020
1EF6 CA		DEX		1F72 A5 02		LDA	\$02
1EF7 10 F8		BPL	MAGPIX	1F74 C9 1A		CMP	#26
1EF9 60	10050	KIS		1676 90 03		RCC	LASIMINUM
1FFR NA	10030	ASI		10 20 04 1D	minute campais	nninn	IGLEANIT
1EFC OA		ASL		: for the loser (so	far)	griing	
1EFD OA		ASL		1F7B 20 7A 21	LÁSTMINCM	JSR	NINTHWEEK
1EFE 18		CLC		1F7E 20 84 1B		JSR	TGLPARTY
1EFF 69 32		ADC	#\$32	; and the winner		100	
1500 00		HIS		1FX1 20 /A 21			
	CDV1	DVTE	Λ	now colit the ur	decided voters	JON	MINALLIANCEL
1F02 00 1F03 00	SPX1 SPY1	.BYTE RYTE	0	; now split the ur	decided voters	IDA	#1
1F03 00 1F03 00 1F04 00 00	SPX1 SPY1 MKR1	.BYTE .BYTE .BYTE	0 0 0,0	; now split the ur 1F84 A9 01 ; first states first	decided voters \$fb/stp votes \$1	LDA fd/stissu	#1
1F02 00 1F03 00 1F04 00 00 1F06 00 00	SPX1 SPY1 MKR1 MAPA1	.BYTE .BYTE .BYTE .BYTE	0 0 0,0 0,0	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19	decided voters \$fb/stp votes \$1	LDA fd/stissu JSR	#1 es SETZPP
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00	SPX1 SPY1 MKR1 MAPA1 MAPT1	.BYTE .BYTE .BYTE .BYTE .BYTE	0 0 0,0 0,0 0,0	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05	decided voters \$fb/stp votes \$1 SPLITLOOP	LDA fd/stissu JSR LDY	#1 es SETZPP #5
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO EO	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0	.BYTE .BYTE .BYTE .BYTE .BYTE .BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB	decided voters \$fb/stp votes \$f SPLITLOOP	LDA fd/stissu JSR LDY LDA	#1 es SETZPP #5 (\$FB),Y
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO EO	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0	.BYTE .BYTE .BYTE .BYTE .BYTE .BYTE	0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A	decided voters \$fb/stp votes \$1 SPLITLOOP	LDA fd/stissu JSR LDY LDA LSR	#1 es SETZPP #5 (\$FB),Y
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO E0 1F0F CO C8 FF 1F12 FF 99 81	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0	.BYTE .BYTE .BYTE .BYTE .BYTE .BYTE .BYTE	0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A ; undecided/4	decided voters \$fb/stp votes \$1 SPLITLOOP	LDA fd/stissu JSR LDY LDA LSR LSR	#1 es SETZPP #5 (\$FB),Y
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO EO 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A ; undecided/4 1F8F AA	decided voters \$fb/stp votes \$1 SPLITLOOP	LDA fd/stissu JSR LDY LDA LSR LSR LSR	#1 es SETZPP #5 (\$FB),Y
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO EO 1F0F CO CB F 1F12 FF 99 F1 1F16 C3 81 99	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255	; now split the ur 1F84 A9 01; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A; undecided/4 1F8F AA 1F90 A0 02	decided voters \$fb/stp votes \$f SPLITLOOP	LDA fd/stissu JSR LDY LDA LSR LSR LSR	#1 es SETZPP #5 (\$FB),Y
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO E0 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : bkcm.ijkl	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A ; undecided/4 1F8F AA 1F90 A0 02 1F92 8A	decided voters \$fb/stp votes \$1 SPLITLOOP  SPLIT2	LDA fd/stissu JSR LDY LDA LSR LSR LSR TAX LDY TXA	#1 es SETZPP #5 (\$FB),Y
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO E0 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : bkcm.ijkl : F1A A9 00	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8E 4A ; undecided/4 1F8F AA 1F90 A0 02 1F92 8A 1F93 18 1F94 71 FB	decided voters  Sib/stp votes \$1  SPLITLOOP  SPLIT2	LDA fd/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC ADC	#1 es SETZPP #5 (\$FB),Y
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO EO 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : : : bkcm.ijkl : 1F1A A9 00 1F1C 8D 6B 1F	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0 SPDAT1	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A ; undecided/4 1F8F AA ; undecided/4 1F8F AA 1F93 18 1F93 18 1F94 71 FB 1F96 90 02	decided voters  fib/stp votes \$1  SPLITLOOP  SPLIT2	LDA fd/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC ADC BCC	#1 es SETZPP #5 (\$FB),Y #2
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO EO 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl : 1F1A A9 00 1F1C 8D 6B 1F 1F1F AD 00 DC	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0 SPDAT1	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A ; undecided/4 1F8F AA 1F90 A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF	decided voters  fib/stp votes \$1  SPLITLOOP  SPLIT2	LDA fd/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC ADC BCC LDA	#1 es SETZPP #5 (\$FB),Y #2 (\$FB),Y PUTIN1 \$FF
1F02 00 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F0A CO CO EO 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : : : bkcm.ijkl : : 1F1A A9 00 1F1C 8D 6B 1F 1F1F AD 00 DC 1F22 29 1F	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0 SPDAT1	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB SDC00 #31F	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A ; undecided/4 1F9F AA 1F90 A0 02 1F92 8A 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB	decided voters  fib/stp votes \$1  SPLITLOOP  SPLIT2  PUTTIN1	LDA fd/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC ADC BCC LDA STA	#1 es SETZPP #5 (\$FB),Y #2 (\$FB),Y PUTIN1 \$FF (\$FB),Y
1F02 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F08 CO CB FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl :: 1F1A A9 00 1F1C 8D 6B 1F 1F1F AD 00 DC 1F22 29 1F 1F24 49 1F 1F24 49 1F	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0 SPDAT1	BYTE BYTE BYTE BYTE BYTE BYTE BYTE LDA STA LDA AND EOR	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A ; undecided/4 1F9C A0 02 1F92 8A 1F93 A0 02 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F90 88 1F90 88 1F90 88	decided voters \$fb/stp votes \$i SPLITLOOP  SPLIT2  PUTTIN1	LDA Id/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC ADC BCC LDA STA DEY	#1 es SETZPP #5 (\$FB),Y #2 (\$FB),Y PUTINI \$FF (\$FB),Y
1F02 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F08 CO CB FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl :: 1F1A A9 00 1F1C 8D 6B 1F 1F1C 8D 6B 1F 1F22 29 1F 1F24 49 1F 1F24 49 1F 1F26 D0 2D	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0  SPDAT1	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F DEBOUNCE	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8E 4A ; undecided/4 1F8F AA 1F90 A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F90 B8 1F9D 0F3	decided voters  Sib/stp votes \$1  SPLITLOOP  SPLIT2  PUTTIN1	LDA Id/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC ADC BCC LDA STA DEY BNE	#1 es SETZPP #5 (\$FB),Y  #2  (\$FB),Y PUTTIN1 \$FF (\$FB),Y SPLIT2
1F02 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F08 CO CO E0 1F0F CO CS FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl : : TF1A A9 00 1F1C 8D 6B 1F 1F1F AD 00 DC 1F22 29 1F 1F24 A9 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 29 1F	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0  SPDAT1  JUKL JOYZ1  JOYZ2	BYTE BYTE BYTE BYTE BYTE BYTE BYTE LDA STA LDA AND EOR BNE LDA AND	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8B 4A ; undecided/4 1F8F AA ; undecided/4 1F9C A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 98 1F9D D0 F3 ; now check for ti 1F9F A0 02	decided voters  Sib/stp votes \$1  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA fd/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC ADC BCC BCC BCC BCC BCC BCC BCC BCC BCC B	#1 es SETZPP #5 (\$FB),Y  #2  (\$FB),Y  PUTTIN1 \$FF (\$FB),Y  SPLIT2 #2
1F02 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F0A CO CO E0 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl : 1F1A A9 00 1F2C 29 1F 1F2C 49 1F 1F2A D0 DC 1F2B 29 1F 1F2B D0 2D 1F2B AD 01 DC 1F2B 29 1F	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0 SPDAT1	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8E 4A ; undecided/4 1F8F AA 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 88 1F9D D0 F3 ; now check for ti 1F9F A0 02 1F9F A0 02	decided voters  fib/stp votes \$1  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA fd/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC ADC BCC ADC BCC BCC BCC BCC BCC BCC BCC BCC BCC B	#1 es SETZPP #5 (\$FB),Y #2 (\$FB),Y PUTIIN1 \$FF (\$FB),Y SPLIT2 #2 (\$FB),Y
1F02 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F0A CO CO E0 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 1F1C 89 68 1F 1F1A A9 00 1F22 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F29 29 1F 1F24 99 1F 1F26 D0 2D	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0 SPDAT1	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A ; undecided/4 1F8F AA ; undecided/4 1F8F AA 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 88 1F9D D0 F3 ; now check for ti 1F9F A0 02 1F9F A0 02	decided voters  fib/stp votes \$1  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA fd/stissu JSR LDY LDA LSR LSR TAX LDY TXA CLC BCC LDA STA DEY BNE LDY CMP BNE	#1 es SETZPP #5 (\$FB),Y  #2  (\$FB),Y PUTIN1 \$FF (\$FB),Y SPLIT2 #2 (\$FB),Y NEXLASUND
1F02 UU 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 CO CO EO 1F0F CO CS FF 1F12 FF 99 81 1F16 C3 81 99 : : : bkcm.ijkl :; 1F1A A9 00 1F1C 8D 6B 1F 1F1F AD 00 DC 1F22 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 29 1F 1F29 29 1F 1F29 1F 1F20 24 ; check inkey	SPX1 SPY1 MKR1 MAPA1 MAPA1 MAPT1 SPDAT0  SPDAT1  IJKL JOYZ1  JOYZ2	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB SDC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A ; undecided/4 1F8F AA 1F90 A0 02 1F92 8A 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 88 1F9D D0 F3 ; now check for ti 1F9F A0 02 1F9F A0 01 1F9F	decided voters  fib/stp votes \$i  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA LDA Id/stissu JSR LDY LDA LSR LSR TAX LDY TXA LDY TXA DEC LDA BCC BCC BCC BCC BCC BCC BCC BCC BCC BC	#1 es es ESETZPP #5 (\$FB),Y #2 (\$FB),Y PUTIINI \$FF (\$FB),Y SPLIT2 #2 (\$FB),Y NEXLASUND
1F02 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F0A CO CO E0 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl : bkcm.ijkl : 1F1A A9 00 1F1C 8D 6B 1F 1F1F AD 00 DC 1F22 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 29 1F 1F20 49 1F 1F20 49 1F 1F2D 49 1F 1F2D 49 1F 1F2P D0 24 ; check inkey 1F31 20 E4 FF	SPX1 SPY1 MKR1 MAPA1 MAPA1 MAPT1 SPDAT0  SPDAT1  IJKL JOYZ1  JOYZ2  CHKBL	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F #\$1F DEBOUNCE \$CO1	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A ; undecided/4 1F8F AA 1F90 A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 88 1F9D D0 F3 ; now check for ti 1F9F A0 02 1F9F A0 02 1F9F A0 02 1F9F A0 02 1F9F A0 02 1F9F A0 02 1F9F A0 03 1F9F A0 04 1F9F A0 05 1F9F A0 05 1F9F A0 05 1F9F A0 05 1F9F A0 06 1F9F A0 07 1F9F A0	decided voters \$fb/stp votes \$i SPLITLOOP  SPLIT2  PUTTIN1 es	LDA LDA LDA LDA LDA LSR LSR LSR LSR LSR LSR LSR LSR LDY TXA CLC ADC LDA STA DEY BNE LDY CMP BNE LDY LDA	#1 es SETZPP #5 (\$FB),Y  #2  (\$FB),Y PUTTIN1 \$FF (\$FB),Y SPLIT2 #2 (\$FB),Y NEXLASUND #3 #6ED) Y
1F02 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F08 CO CB FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl :: 1F1A A9 00 1F12 8D 6B 1F 1F1F AD 00 DC 1F22 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 29 1F 1F29 1F 1F20 19 1F 1F21 00 24 ; check inkey 1F31 20 E4 FF 1F34 D0 01 1F36 60	SPX1 SPY1 MKR1 MAPA1 MAPA1 MAPT1 SPDAT0  SPDAT1  IJKL JOYZ1  JOYZ2  CHKBL	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F #\$1F DEBOUNCE \$\$C01 #\$1F \$\$C01 \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 #\$1F \$\$C01 *\$ \$\$C01 *\$ *\$C01 *\$ *\$ *\$ *\$C01 *\$ *\$ *\$ *\$ *\$ *\$ *\$ *\$ *\$ *\$ *\$ *\$ *\$	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8B 4A ; undecided/4 1F8F AA ; undecided/4 1F9C A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 88 1F9D D0 F3 ; now check for ti 1F9F A0 02 1F9F A0 02 1F9F A0 02 1F9F A0 02 1F9F A0 03 1FA7 D1 FB 1FA3 D0 13 ; resolve the tie 1FA5 A0 03 1FA7 B1 FB 1F9 C8	decided voters  Sib/stp votes \$i  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA IDA ID/Stissus JSR LDY LDA LSR LSR LLSR LLSR LLSR LLSR LLSR LLSR	#1 es SETZPP #5 (\$FB),Y  #2  (\$FB),Y PUTTIN1 \$FF (\$FB),Y SPLIT2 #2 (\$FB),Y NEXLASUND #3 (\$FB),Y
1F02 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F0A CO CO E0  1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl : 1F1A A9 00 1F22 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 29 1F 1F20 49 1F 1F2D 02 4F 1F31 20 E4 FF 1F34 00 01 1F37 38	SPX1 SPY1 MKR1 MAPA1 MAPT1 SPDAT0  SPDAT1  JKL JOYZ1  JOYZ2  CHKBL  CNIJKL	BYTE BYTE BYTE BYTE BYTE BYTE BYTE LDA STA AND EOR BNE LDA STA STA AND EOR BNE LDA STA STA STA STA STA STA STA STA STA ST	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F #\$1F DEBOUNCE \$PC01 \$\$1F #\$1F DEBOUNCE \$\$C01 \$\$1F	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8B 4A ; undecided/4 1F8F AA ; undecided/4 1F90 A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F98 91 FB 1F90 D0 F3 ; now check for ti 1F9F A0 02 1F91 A0 02 1FA1 D1 FB 1FA3 D0 13 ; resolve the tie 1FA5 A0 03 1FA7 B1 FB 1FA9 C8 1FA9 C8 1FA9 C8	decided voters  Sib/stp votes \$i  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA IDA IDA IDA IDA IDA IDA IDA IDA IDA I	#1 es SETZPP #5 (\$FB),Y  #2  (\$FB),Y  PUTTIN1 \$FF (\$FB),Y  SPLIT2 #2 (\$FB),Y  NEXLASUND #3 (\$FB),Y
1F02 UU 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F0A CO CO E0 1F0F CO C8 FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl : 1F1A A9 00 1F20 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 29 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 29 1F 1F20 04; check inkey 1F31 20 E4 FF 1F34 D0 01 1F36 60 1F37 38 1F38 E9 49	SPX1 SPY1 MKR1 MKR1 MAPA1 MAPT1 SPDAT0  SPDAT1  IJKL JOYZ1  JOYZ2  CHKBL  CNIJKL	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F DEBOUNCE \$FFE4 CNIJKL	; now split the ur 1F84 A9 01 ; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8B A4 ; undecided/4 1F8F AA ; undecided/4 1F8F AA 1F90 A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 88 1F9D D0 F3 ; now check for ti 1F9F A0 02 1FA1 D1 FB 1FA3 D0 13 ; resolve the tie 1FA5 A0 03 1FA7 B1 FB 1FA9 C8 1FA9 C8 1FA9 C8 1FA9 C8 1FA9 FB	decided voters \$16/stp votes \$1 SPLITLOOP  SPLIT2  PUTTIN1 es	LDA IDA IDA IDA IDA IDA IDA IDA IDA IDA I	#1 es SETZPP #5 (\$FB),Y #2 (\$FB),Y PUTTIN1 \$FF (\$FB),Y SPLIT2 #2 (\$FB),Y NEXLASUND #3 (\$FB),Y (\$FB),Y
1F02 UU 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F08 CO CO EO 1F0F CO CS FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl : : F1A A9 00 1F2C 29 1F 1F1F AD 00 DC 1F22 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 AD 01 DC 1F28 29 1F 1F29 29 1F 1F20 24 ; check inkey 1F31 20 E4 FF 1F34 D0 01 1F36 60 1F37 38 1F38 E9 49 1F38 00 DE	SPX1 SPY1 MKR1 MKR1 MAPA1 MAPT1 SPDAT0  SPDAT1  IJKL JOYZ1  JOYZ2  CHKBL  CNIJKL	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB \$DC00 #\$1F #\$1F #\$1F DEBOUNCE \$DC01 #\$1F DEBOUNCE \$DC01 #\$1F W\$1F W\$1F DEBOUNCE	; now split the ur 1F84 A9 01; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A 1F9C A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F97 A0 02 1F9	decided voters  fib/stp votes \$1  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA LDA LDA JSR LDY LDA LSR LSR LSR TAX LDY TXA LDY TXA LDDA LSR LDY TXA LDDA LSR LDY TXA LDY TXA LDDA LSR LDDA LSR LDDA LSR LDY TXA LDDA LSR LDDA LDDA LDDA LDDA LDDA LDDA LDDA LDD	#1
1F02 UU 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F08 CO CO E0 1F0F CO CS FF 1F12 FF 99 81 1F16 C3 81 99 : : :bkcm.ijkl :; 1F1A A9 00 1F22 29 1F 1F1F AD 00 DC 1F22 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 AD 01 DC 1F28 AD 01 DC 1F29 29 1F 1F20 49 1F 1F30 20 4 ; check inkey 1F31 20 E4 1F36 60 1F37 38 1F38 E9 49 1F3A 90 DE 1F3C AA	SPX1 SPY1 MKR1 MKR1 MAPA1 MAPT1 SPDAT0  SPDAT1  IJKL JOYZ1  JOYZ2  CHKBL  CNIJKL	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0,0 0,0 0,0 192,192,224,240,22 4 192,200,255 255,153,129,195 195,129,153,255 #0 JB SDC00 #\$1F #\$1F DEBOUNCE \$DC01 #\$1F #\$1F DEBOUNCE \$FFE4 CNIJKL	; now split the ur 1F84 A9 01; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8D 4A 1F8E 4A 1F9C A0 02 1F92 BA 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 8B 1	decided voters  Sib/stp votes \$i  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA LDY LDA LSR LDY LDA LSR LSR LDY TXA LDY TXA LDY TXA DEY BNE LDY BNE LDY BNE LDY CMP BNE LDA LNY SEC LDA ROLL NA LNA LNA LNA LNA LNA LNA LNA LNA LN	#1 es es SETZPP #5 (\$FB),Y #2 (\$FB),Y PUTIIN1 \$FF (\$FB),Y NEXLASUND #3 (\$FB),Y (\$FB),Y (\$FB),Y (\$FB),Y NEXLASUND #3 (\$FB),Y (\$FB),Y (\$FB),Y #300
1F02 UU 1F03 00 1F04 00 00 1F06 00 00 1F08 00 00 1F08 00 00 1F08 CO CB FF 1F12 FF 99 81 1F16 C3 81 99 : : bkcm.ijkl : bkcm.ijkl : FF1A A9 00 1F1C 8D 6B 1F 1F1F AD 00 1F1C 8D 6B 1F 1F22 29 1F 1F24 49 1F 1F26 D0 2D 1F28 AD 01 DC 1F28 29 1F 1F28 AD 01 DC 1F28 29 1F 1F20 49 1F 1F20 49 1F 1F20 49 1F 1F20 49 1F 1F30 150 150 150 150 150 150 150 150 150 15	SPX1 SPY1 MKR1 MAPA1 MAPA1 MAPT1 SPDAT0  SPDAT1  IJKL JOYZ1  JOYZ2  CHKBL  CNIJKL	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	#29 \$FFD2 #144 \$FFD2 #18 \$FFD2 #160 \$FFD2 \$02 #\$3F #0  REGFIRST,X RGNM #176 \$FFD2 GTKEYB \$PFD2 GTKEYB \$PFD2 GTKEYB \$PFD3 \$PFD4 #146 \$FFD2 GTKEYB \$PFD4 #146 \$FFD5 #7 \$PFD5 #7 \$PFD5 #7 \$PFTD6 #7 \$PFTD6 #7 \$PFTD6 #7 \$PFTD6 #7 \$PFTD7 \$PFTD6 #7 \$PFTD7	; now split the ur 1F84 A9 01; first states first 1F86 20 CF 19 1F89 A0 05 1F8B B1 FB 1F8E 4A 1F8E 4A 1F9D A0 02 1F92 8A 1F93 18 1F94 71 FB 1F96 90 02 1F98 A5 FF 1F9A 91 FB 1F9C 88 1F9D D0 F3; now check for ti 1F9F A0 02 1F9F A0 02 1FA1 D1 FB 1F9C 8B 1F9D D0 F3; now check for ti 1F9F A0 02 1FA1 D1 FB 1F9C 8B 1F9D D0 F3; now check for ti 1F9F A0 02 1FA1 D1 FB 1F9C 8B 1F9D A0 02 1FA1 D1 FB 1F9C 8B 1F9D A0 02 1FA5 A0 03 1FA7 B1 FB 1FA9 A8 1FAB A9 80 1FAF 2A 1FB0 A8 1FAB A9 80 1FAF 2A 1FB0 A8 1FB1 CP	decided voters  Sib/stp votes \$i  SPLITLOOP  SPLIT2  PUTTIN1 es	LDA LDY BNE LDY BNE LDY CMP BNE LDY LDA ROL TAY INV	#1 es SETZPP #5 (\$FB),Y  #2  (\$FB),Y PUTTIN1 \$FF (\$FB),Y SPLIT2 #2 (\$FB),Y NEXLASUND #3 (\$FB),Y (\$FB),Y (\$FB),Y

1FB2 B1 FB		LDA	(\$FB),Y #1 (\$FB),Y  \$FB #5 \$FB #255 \$PLITLOOP  CKDEMREP CKNOSTATES #51 REALLEAN,X #\$11 TRYFEWMORE REALLEAN,X \$HIFTYLOOP	; prepare for grand	t loop	071	0110050
1FB4 E9 01 1FB6 91 FB		SBC STA	#1 (¢cp) v	2032 8D 20 8F		SIA	CURREG
		SIA	( <b>\$</b> FD), ī	** region totals			
1FB8 A5 FB 1FBA 18	NEXLASUND	LDA	\$FB	2035 EE 20 8F	REGIONTOT	INC	CURREG
1FBA 18		CLC		2038 AD 20 8F		LDA	CURREG
1FBB 69 05		ADC	#5	203B C9 0A		CMP	#10
1FBA 18 1FBB 69 05 1FBD 85 FB 1FBF C9 FF 1FC1 D0 C6		CMD	\$FB #255 \$PLITLOOP  CKDEMREP CKNOSTATES #51 REALLEAN,X #\$11 TRYFEWMORE REALLEAN,X \$SHIFTYLOOP  TRANSLEANCOLR MAKEMAP BARCHART CMLOGOPUT MENUITIN #15 \$02 #29  \$FFF0 #152 \$FFD2 #32 #11 \$FFD2 BLANKITS \$02 \$02 \$02 \$02 \$02 \$1932 \$1972 2012 #32 #31	2030 00 03		RINE	GPRIX PREPGL
1FC1 D0 C6		RNF	SPLITLOOP	2037 40 30 20	GPRIX	JIVIF	CONSULHD
: and the undecide	ds are solit up	DITE	OI EIIEOOI	2045 A9 00	GI TIIX	LDA	#0
;				2047 85 B2		STA	\$B2
; now show the res	ults			2049 85 B3		STA	\$B3
1FC3 20 FA 1A		JSR	CKDEMREP	204B A2 04		LDX	#4 Z3
1FC0 20 B1 IA		1DA 12H	UKNUSIAIES #51	2040 80 FB 204E AO 1E		218	431
1FCR RD 00 90	SHIFTYI OO	IDA	RFALLFAN X	2051 84 FC		STY	Z3+1
1FCE 29 11	0.1111 1.1200	AND	#\$11	2053 A9 BE		LDA	#190
1FD0 F0 03		BEQ	TRYFEWMORE	2055 85 F7		STA	Z1
1FD2 1E 00 90		ASL	reallean,X	2057 85 F9		STA	<b>Z2</b>
1FD5 CA	TRYFEWMOR	DEX	CHIETVLOOD	2059 A9 04		LDA	#4 Z1 + 1
· eliminates undeci	dade	DINE	SHIFTTLOUP	2000 00 FO		SIA	2171
1FD8 20 6C 1B	ucus	JSR	TRANSLEANCOLR	205D 85 FA		STA	Z2+1
1FDB 20 ED 09		JSR	MAKEMAP	; # of states in re	gion	•	
1FDE 20 57 16		JSR	BARCHART	205F A6 A7		LDX	\$A7
1FE1 20 5A 0B		JSR	CMLOGOPUT	2061 AO 03	BLUNKOUT	LDY	#3
1FE4 20 CD 15		JSR	MENUITIN	2063 A9 20	DLUNIZIN	LUA	#32
· (for horder)		LDX	#13	2000 91 F/ 2067 88	DECINALIN	DEA	(Z1),Y
1FF9 86 02		STX	\$02	2068 10 FB		BPL	BLUNKIN
1FEB AO 1D	DEOLH	LDY	#29	206A A5 F7		LDA	Z1
1FED 18		CLC		206C 18		CLC	
; kernal plot				206D 69 28		ADC	#40
1FEE 20 F0 FF		JSR	\$FFF0	2061 85 17		SIA	Z1 DOWNTZZ
TEFT A9 98		LUA	#102	20/1 90 02 20/3 F6 F8		INC	Z1+1
1FF3 20 D2 FF		JSR	\$FFD2	2075 CA	DOWNTZZ	DEX	2111
1FF6 A9 20		LDA	#32	2076 DO E9		BNE	BLUNKOUT
; blank space				2078 AE 20 8F		LDX	CURREG
1FF8 A2 0B		LDX	#11	207B BD 7F 24		LDA	REGFIRST,X
1FFA 20 D2 FF	BLANKIIS	JSK	\$FFU2	20/E 85 FE		DEV	Z4+1
1FFF DO FA		RNF	RI ANKITS	2081 RD 7F 24		IDA	REGFIRST.X
2000 E6 02		INC	\$02	2084 85 FD		STA	Z4
2002 A6 02		LDX	\$02	2086 A6 FB	EVPLOT	LDX	Z3
2004 E0 18		CPX	#24	2088 A4 FC		LDY	Z3+1
2006 D0 E3		BNE	DEOLH	208A 18		CLC	
2008 AD 84 07		STA	1092	208B 20 F0 FF		JSR	\$FFF0
200E 8D 84 07		STA	1972	208E A6 FD	LARGEXLOO	LDX	Ž4
; even up edges		0		;			
2011 8D DC 07		STA	2012	2090 BD 00 90		LDA	REALLEAN,X
2014 A9 20		LDA	#32	2093 29 0F		AND	#\$0F
2016 A2 UB	DI NIVDOT	LDX	#11 2012 V	2095 DU 03 2007 AC 6E 21		IMP	ABC19 DOTHEREPS
2018 SD DC 07	DLINNDUI	DEX	2012,7	2097 4C 01 21	ARC19	LDA	CREVOTE,X
: blanks at bottom	for totals	DEA		209D AA	7.50.10	TAX	0.12.0.2
201C D0 FA	,	BNE	BLNKBOT	209E 18		CLC	
201E A9 14		LDA	#152 \$FFD2 #32 #11 \$FFD2  BLANKITS \$02 \$02 \$02 #24 DEOLH 1892 1932 1972 2012 #32 #11 2012,X  BLNKBOT #20 2018 #0 #3 \$03,X  ZEREVOT #9 \$AE #0	2090 BD 00 90 2093 29 0F 2095 D0 03 2097 4C 6F 21 209A BD 44 22 209D AA 209E 18 209F 65 B2 20A1 85 B2 20A3 8A 20A4 C9 0A 20A6 B0 05 20A8 A9 20 ; less than ten, p		ADC	\$B2
; t for total		CTA	2010	20A1 85 82		21V	\$B2
2020 80 E2 07		SIA	2010 #N	20A3 0A 20A4 C9 0A		CMP	#10
2025 A2 03		LDX	#3	20A6 B0 05		BCS	PRNEVOT
2027 95 03	ZEREVOT	STA	\$03,X	20A8 A9 20		LDA	#32
; 1 for total 2020 8D E2 07 2023 A9 00 2025 A2 03 2027 95 03 2029 CA 202A 10 FB 202C A9 09 202E 85 AE		DEX		; less than ten, p 20AA 20 D2 FF 20AD A9 9A 20AF 20 D2 FF	rint a space		
202A 10 FB		BPL	ZEREVOT	20AA 20 D2 FF	DOMES AT	JSR	\$FFD2
202C A9 09		LUA	#9 ¢^c	20AD A9 9A 20AF 20 D2 FF	PHNEVUI	JSR	#154 \$FFD2
202E 85 AE 2030 A9 00	PREPGL	LDA	#N	; light blue		Jon	WI I DZ
F000 UA 00	I IILI UL	LUN		, ngm siao			

			213B 65 03 213F A9 00 2141 65 04 2143 85 04 2145 85 05 2149 85 05 2149 85 05 2148 A9 00 214D 65 06 214F 85 06 2151 A6 03 2153 A5 04 2155 20 CD BD 2158 A2 18 215A A0 24 215C 18 215D A0 65 2162 A5 06 2164 A2 0CD BD 2167 C6 AE 2169 20 2E 11 PRESREG9 216C 4C 35 20 216r republicans won the state 2167 BD 44 22 DOTHEREPS 2172 18 2173 65 B3 2177 4C C9 20 2** ninth week routine 2166 BD 44 22 DOTHEREPS 2179 BD 81 8F 2179 BD 81 8F 2178 A8 8E 2178 A9 00 2185 BB 81 8F 2188 AE 20 8F 2188 AE 20 8F 2188 AB 2187 CA 2199 A9 9C CONSULHD 2198 CO 2198 20 D2 FF 2199 A9 9C CONSULHD 2198 CA 2199 A9 9C CONSULHD 2198 CA 2199 A9 9C CONSULHD 2198 CO 2198 20 D2 FF 2199 A9 9C CONSULHD 2198 CO 2198 A0 1E 214A A2 03 214A A0 1E 214B AB 21AC AE 20 8F 21AB AB 21BC AA 2199 A9 9C CONSULHD 2198 CO 219		
20B2 A9 00	LDA	#0	213B 65 03	ADC	\$03
; print e-votes			213D 85 03	STA	\$03
20B4 20 CD BD	JSR	\$BDCD	213F A9 00	LDA	#0
2087 A6 FB	LDX	Z3	2141 65 04	ADC	\$04
20B9 AU 25	LDY	#3/	2143 85 04	SIA	\$04
2088 18	CLC		2145 A5 B3	LDA	\$B3
, plot for erase	ICD	<b>CCCCO</b>	2147 00 00	ADU CTA	\$UD
20DC 20 F0 FF	1 DA	<b>⊅</b> ΓΓΓU	2149 00 U0 214B AQ AA	SIA	φυσ #0
2001 A0 00	LDA	#32	214D A5 00 214D 65 06	ADC	#U ¢06
2001 A3 20 2003 20 D2 FF ORLITER	T JSR	\$FFD2	214D 03 00 214F 85 06	STA	902
2006 88	DEY	ψ11 D2	2151 A6 03	IDX	\$03
2007 DO FA	BNF	ORI ITERT	2153 A5 04	LDA	\$04
2009 F6 FB FINIRI 3	INC	73	2155 20 CD BD	JSR	\$BDCD
20CB E6 FD	INC	Z4	2158 A2 18	LDX	#24
20CD C6 A7	DEC	\$A7	215A AO 24	LDY	#36
20CF D0 B5	BNE	EVPLOT	215C 18	CLC	
20D1 A5 AE	LDA	\$AE	215D 20 F0 FF	JSR	\$FFF0
20D3 D0 03	BNE	ABC20	2160 A6 05	LDX	\$05
20D5 4C 69 21	JMP	PRESREG9	2162 A5 06	LDA	\$06
20D8 AD 20 8F ABC20	LDA	CURREG	2164 20 CD BD	JSR	\$BDCD
20DB 18	CLC		2167 C6 AE	DEC	\$AE
20DC 69 0E	ADC	#14	2169 20 2E 11 PRESREG9	JSR	PRESSFIRE
20DE AA	TAX		216C 4C 35 20	JMP	REGIONTOTS
20DF A0 1F	LDY	#31	; the republicans won the state		
20E1 18	CLC		216F BD 44 22 DOTHEREPS	LDA	CREVOTE,X
; plot			2172 18	CLC	
20E2 20 F0 FF	JSR	\$FFF0	2173 65 B3	ADC	\$B3
20E5 A9 9A	LUA	#154	21/5 85 B3	SIA	\$B3
20E/ 20 D2 FF	JSK	\$FFU2	21// 4C C9 20	JMP	FINIRL3
20EA A3 B2	LDA	<b>\$</b> 52	, "" ninth week routine		/O) 11-1-
20ED CO OA	CMD	<b>#10</b>	2174 AD 14 OF MINITUMEER	inban (9)	(2) to every state
20ED C9 0A	DOC	# IU	217A AD IA OF NINITIWEEK	CTA	CANCTACK
2051 80 00	I DV	#22 DEIVIDAO1	217D OD 01 OF	SIA	CANSTAUNT I
2011 A3 20 20F3 20 D2 FF	ISB	%EED2	7180 20 E2 1B	ICD	CAMPONICE
2013 20 DZ 11	T IDA	#N	2100 20 F3 10	IDA	#N
· dem votes	LUA	#U	2185 RD R1 RF	CTA	CANCTACK 1
20E8 20 CD BD	JSR	\$BDCD	2188 AF 20 8F	INX	CURREG
20FB A9 9C	LDA	#156	218B BD 7F 24	LDA	REGEIRST X
20FD 20 D2 FF	JSR	\$FFD2	218E A8	TAY	· in a · in a · in · in · in · in · in ·
2100 A9 20	LDA	#32	218F CA	DEX	
2102 48	PHA		2190 BD 7F 24	LDA	REGFIRST,X
2103 20 D2 FF	JSR	\$FFD2	2193 AA	TAX	
2106 AD 20 8F	LDA	CURREG	; last region		
2109 09 30	ORA	#\$30	2194 CA	DEX	
2108 20 D2 FF	JSR	\$FFD2	2195 20 F7 1B	JSR	CAMPREGK
210E 68	PLA		2198 60	RTS	
210F 20 D2 FF	JSR	\$FFD2	i		
2112 20 U2 FF	JSH	\$FFD2	2199 A9 9C CONSULHD	LDA	#156
2113 A3 B3	LUA	\$B3	219B 20 UZ FF	JSR	\$FFD2
2119 CO OA	CMD	410 .	, print purple region neader	ICD	ODECT
2110 09 0A 2114 RD 05	BUS	# 10 DED02	218E 20 ED 11	JOH	UNEEI
211C A9 20	100	#33	21A1 A2 03	LDV	#3U
211F 20 D2 FF	JSR	\$FFD2	2145 18	רטי	#30
2121 A9 1C REP92	I DA	#28	21A6 20 FO FE	ICD	<b>GEEEU</b>
2123 20 D2 FF	JSR	\$FFD2	for dem/ren ton	0011	ψιτιο
2126 A9 00	LDA	#0	21A9 20 C1 21	ISB	HULLBU
: rep votes			21AC AF 20 8F	IDX	CURREG
2128 20 CD BD	JSR	\$BDCD	21AF BD 7F 24	LDA	REGEIRST.X
212B A2 18	LDX	#24	21B2 CA	DEX	
212D A0 1E	LDY	#30	21B3 38	SEC	
212F 18	CLC		21B4 FD 7F 24	SBC	REGFIRST.X
2130 20 F0 FF	JSR	\$FFF0	21B7 85 A7	STA	\$A7
2133 A9 98	LDA	#152	21B9 69 03	ADC	#3
; gray 2			21BB AA	TAX	
2135 20 D2 FF	JSR	\$FFD2	21BC A0 1E	LDY	#30
2138 A5 B2	LDA	\$B2	21BE 20 F0 FF	JSR	\$FFF0
213A 18	CLC		21C1 A2 00 HDLLRD	LDX	#0

21C3 BD CF 21 21C6 D0 01	HDLLRE	LDA BNE	DRHD,X BOTTOMQ	230D 07 07 04	.BYTE	5,201,199 7,7,4,196,241,49,11
21C8 60 21C9 20 D2 FF	BOTTOMQ	rts Jsr Inx	\$FFD2	2315 2E 2D 29	.BYTE	0,46 46,45,41,41,41,20,2 0,20
21CC E8 21CD D0 F4 21CF 9A 44 45	DRHD	BNE .ASC	HDLLRE " [<7>]DEM {RED}	231D 54 10 50	.BYTE	84,16,80,12,76,11,1 0.73
	Dialo		REP"	2325 09 09 47	.BYTE	9,9,71,70,197,241,4
21DB 00 ; ; bkcm.tables		.BYTE	0	232D 2E 2E 2D	.BYTE	9,110 46,46,45,45,42,42,4 2,149
•	07114145	400	" A 45AU IV/TA 4 A DIOT"	2335 95 95 11	.BYTE	149,149,17,145,12,7
21DC 20 20 4D 21EA 4E 59 4E 21F0 4F 48 49	STNAME	.ASC .ASC .ASC	" MENHVTMARICT" "NYNJPA" "OHINILMIWI"	233D 4A 89 58	.BYTE	6,11,138 74,137,88,151,200,0 ,0,49
21FA 4D 4E 49		.ASC	"MNIAMONDSDNEK S"	2345 31 6E 2E	.BYTE	49,110,46,45,45,42, 42,42
2208 44 45 4D		.ASC	"DEMDDCVAWVNCS CGAFL"	234D 15 15 15	.BYTE	21,21,21,85,17,145, 76,75
221A 4B 59 54		.ASC	"KYTNALMS"	2355 1F 5F 5A	.BYTE	31,95,90,25,87,214, 0,0
2222 41 52 4C 222A 4D 54 49		.ASC .ASC	"ARLAOKTX" "MTIDWYCONMAZU TNV"	235D F1 31 6E	.BYTE	
223A 57 41 4F	alastaral vetra	.ASC	"WAORCAAKHI"	2365 AB 65 25	.BYTE	171,101,37,37,81,99 ,17,96
; below is crunche 2244	STEVOTE	=	\$7800	236D 60 60 59	.BYTE	96,96,89,91,91,91,0,
2244 00 04 04 224B 24 10 19 224E 17 0C 18	CREVOTE	.BYTE .BYTE .BYTE	0,4,4,3,13,4,8 36,16,25 23,12,24,20,11	2375 00 00 F1	.BYTE	0 0,0,241,49,113,44,4 4,43
2253 OA 08 OB		.BYTE	10,8,11,3,3,5,7	237D 2B 2B 26	.BYTE	43,43,38,37,37,165,
225A 03 0A 03		.BYTE	3,10,3,12,6,13,8,12, 21	2385 62 A1 A0	.BYTE	
2263 09 0B 09 2267 06 0A 08		.BYTE	9,11,9,7 6,10,8,29	238D 00 00 00	.BYTE	
226B 04 04 03 2273 0A 07 2F		.BYTE .BYTE	4,4,3,8,5,7,5,4 10,7,47,3,4	2395 2B 2B 6B	.BYTE	
2278 00 2279 01 03 03	SECTABLE TERTABLE	.BYTE	0 1,3,3,4,5,8,9,8	239D A3 22 21	.BYTE	
2281 OA 1A 1F		.BYTE	10,26,31,11,14,16,1 4,12	23A5 00 00 00	.BYTE	
2289 25 OC 13		.BYTE	37,12,19,16,17,20,2 5,9	23AD EC EB E6	.BYTE	8,38,38
2291 20 19 19		.BYTE	32,25,25,29,27,30,2 6,31	23B5 24 64 22	.BYTE	36,100,34,33,33,29, 29,0
2299 1D 20 11		.BYTE	29,32,17,34,38,35,4 0,40	23BD 00 00 00 23C5 F3 00 00	.BYTE .BYTE	243,0,0,0,230,230,3
22A1 29 2A 26		.BYTE	41,42,38,37,46,49,4 0.40	23CD E6 24 E4	.BYTE	8,38 230,36,228,226,225,
22A9 2C 00 00 22AD EF EF 2F	MAPAMAP	.BYTE .BYTE	44,0,0,0 239,239,47,111,231,	23D5 00 00 00	.BYTE	222,222,30
ZZAD EF EF ZF	IVIAFAIVIAF	.DITE	231,231,231	23DD 00 00 F3	.BYTE	
22B5 E7 D2 D2		.BYTE	231,210,210,210,20	23E5 E6 00 00	.BYTE	
22BD 00 00 00		.BYTE	7,207,207,0 0,0,0,0,0,0,193	23ED DE DE 00	.BYTE	222,222,0,0,0,0,242, 242
22C5 C1 EF 2F		.BYTE	193,239,47,47,111,1 03,39,39	23F5 F2 F2 00	.BYTE	
22CD 27 27 12		.BYTE	39,39,18,18,18,15,7 9,79	23FD 00 E6 00 2405 00 DE 1E	.BYTE	0,222,30,222,0,0,24
22D5 4D CD CD 22DD C1 C1 F0		.BYTE .BYTE	77,205,205,0,0,0,0,0 193,193,240,48,48,1	240D 00 00 F2	.BYTE	
22E5 27 27 27		.BYTE	12,103,39 39,39,39,19,19,19,1 5,15	2415 00 00 00 241D 00 00 00	.BYTE .BYTE	
22ED 4F 0E CE		.BYTE	79,14,206,205,0,0,0,	2425 20 52 45	REGIONAME .ASC	" REGIONS"
22F5 07 42 C1		.BYTE	199 7,66,193,240,48,48,	242D 00 242E 4E 45 57	.BYTE	"NEW ENGL"
22FD 67 29 29		.BYTE	40,40 103,41,41,41,19,19,	2436 00 2437 55 52 42	.BYTE .ASC	0 "Urban ne"
			19,16	243F 00 2440 48 45 41	.BYTE	
2305 10 4E 8C		.BYTE	16,78,140,205,13,20	2440 40 40 41	JGM.	HEARTEND

2448 00	.BYTE	0	2524 00	WEEKNO	.BYTE	0
2449 47 20 50	.ASC	"g plains"	2525 44 52 55	PRTIS	.ASC	"DRU"
2451 00	.BYTE	0	2528 9F 1C 98	PRTCO	.ASC	"{CYN} {RED} [<5
2452 41 54 4C	.ASC	"ATLANTIC"				>]"
245A 00	.BYTE	0	252B 00 00		.BYTE	0,0
245B 53 4F 55	.ASC	"SOUTHERN"	; sat-sun (backwa			*****
2463 00	.BYTE	O SADIKI ATEVIVI	252D	DAY	_	\$8F00
2464 41 52 4B 246C 00	.ASC	"ARKLATEXY"	252D	HEALTH	=	\$8F08
246D 4D 4F 55	.BYTE .ASC	0 "MOUNTAIN"	252D 252D	MONEY LASTSTATE	=	\$8F09
2475 00	.BYTE	0	252D 252D	LASTREGI	=	\$8F0A \$8F0B
2476 50 41 43	ASC	"PACIFIC"	252D	HOMESTATE	_	\$8F0C
247D 20 00	.BYTE	32,0	252D	JOB	=	\$8F0D
; first state #s in	.5	02,0	252D	INCUMB	=	\$8F0F
247F 01 07 0A REGFIRST	.BYTE	1,7,10,15,22,31,35,3	252D	CHAR	=	\$8F10
		9,47,52	252D	STAM	=	\$8F11
			252D	INTL	=	\$8F12
; pvcrunch crunched leanings			252D	EXPR	===	\$8F13
; region 1			252D	APPL	=	\$8F14
2489 34 DC F3 PVCRUNCH	.BYTE		; 0=dem 1=rep			
		3,220	252D	PARTY	==	\$8F15
; region 2	D) (TE	70 000 77	252D	CAMPEFF	=	\$8F16
2490 4E E4 4D	RAIF	78,228,77	252D	STREN	=	\$8F17
; region 3	DVTE	77 000 007 000 00	252D	FUNDR	=	\$8F18
2493 4D E4 E3	BTIE	77,228,227,206,92	252D	TVADS	=	\$8F19
; region 4 2498 3E F3 5C	DVTC	62,243,92,227,242,2	252D	LASTWK	=	\$8F1A
2490 SE F3 SG	.DTTE	27,243	; the five stands 252D	STAND0	_	\$8F1B
; region 5		21,240	252D 252D	CURREG	_	\$8F20
249F 63 3F 2F	RYTE	99,63,47,228,63,69,	252D	HOMEREGI	===	\$8F21
2101 00 01 21		100,190,69	252D	OTHERCAN	=	\$8F40
; region 6		.00,.00,00	252D	OTDAY	_	\$8F40
24A8 46 64 4D	.BYTE	70,100,77,77	252D	OTHEALTH	=	\$8F48
; region 7		.,, ,	252D	OTMONEY	=	\$8F49
24AC 46 46 D4	.BYTE	70,70,212,78	252D	OTLASTST	=	\$8F4A
; region 8			252D	OTLASTRE	=	\$8F4B
24B0 D4 F3 F3	.BYTE	212,243,243,197,21	252D	OTHOMEST	=	\$8F4C
		2,228,243,197	252D	OTJOB	=	\$8F4D
; region 9			252D	OTINCUMB	_	\$8F4F
24B8 EB F2 E4	.BYTE	235,242,228,242,47	252D	OTCHAR	=	\$8F50
24BD 21 3B 21 ISSU1	.BYTE	33,59,33,246,104,12	252D	OTSTAM	=	\$8F51
24C2 CA DD 24	DVTE	000 100 00	252D	OTINTL	=	\$8F52
24C3 CA BD 24 24C6 61 59 BD	.BYTE .BYTE	202,189,36 97,89,189,220,52	252D 252D	otexpr otappl	_	\$8F53
24CB 76 7A 51	BYTE	118,122,81,38,3,171	: 0=dem 1=rep		_	\$8F54
2400 10 17 01	.DITL	,186	252D	OTPARTY	=	\$8F55
24D2 EE FE CC	.BYTE	238,254,204,171,2,8	252D	OTCAMPEF	=	\$8F56
= :3 <b>= ==</b> · : 30		0,70,70,235	252D	OTSTREN	=	\$8F57
24DB 00 91 45	.BYTE	0,145,69,1	252D	OTFUNDR	=	\$8F58
24DF 01 86 57	BYTE	1,134,87,203	252D	OTTVADS	==	\$8F59
24E3 61 60 77	BYTE	97,96,119,223,66,23	252D	OTLASTWK	=	\$8F5A
		4,170,246	252D	OTSTAND0	=	\$8F5B
24EB F5 EA 9E	.BYTE	245,234,158,124,25	252D	OTCURREG	=	\$8F60
		4	252D	OTHOMEREG	=	\$8F61
24F0 6F F7 39 ISSU2	.BYTE	111,247,57,67,159,2	252D	CANSTACK	=	\$8F80
0450 40 40 55	01.75	11	252D	STISSUES	=	\$9100
24F6 42 1B 5F	.BYTE	66,27,95	252D	STPVOTES	===	\$9200
24F9 1D 68 A4	.BYTE	29,104,164,179,5				
24FE 41 34 E9	.BYTE	65,52,233,44,56,4,1				
2505 11 D2 42	.BYTE	36 17,210,66,230,63,16				
23UJ 11 UZ 4Z	DITE.	9,175,77,154				
250E 39 3D 5C	.BYTE	57,61,92,140				
2512 3E 2F 78	BYTE	62,47,120,216				
2516 25 3B 05	BYTE	37,59,5,145,213,145				
	.5.16	,243,187				
251E F2 0B E6	.BYTE	242,11,230,131,193				
,		.,,,,				
•						
2523 00 FIRSTCAN	.BYTE	0				

# Heat Seeker Source Code

Source code by Tim Victor

0801		*=	\$801	0817 A0 18		LDY	#\$18
1	_			0819 A9 00	CNIDLLID	LDA	#0 SID — 1,Y
; basic program	n line	D) (TE	AD 0 4 0 005 000 00	081B 99 FF D3	SNULUP	STA Dey	יום – ווי
0801 0D 08 01		.BYTE	\$D,8,1,0,\$9E,\$32,\$3	081E 88 081F D0 FA		BNE	SNDLUP
				UBIF DU FA		DINE	SNULUI
080A 00 00 00		BAIF	0,0,0	0821 A9 02		LDA	#2
				0823 8D 17 D4		STA	SID+\$17
; equates				0826 A9 1F		LDA	#\$1F
080D	SCRPTR	==	\$FE	0828 8D 18 D4		STA	SID+\$18
080D	COLPTR	=	\$FC	082B A9 08		LDA	#8
	SOURCE	=	\$FE	082D 8D 16 D4		STA	SID+\$16
	DEST	_	\$FC	0830 A9 03		LDA	#\$3
;sprite 0,x				0832 8D 08 D4		STA	V2+1
080D	SPRITEX	=	\$D000	0835 A9 3D		LDA	#\$3D_
;sprite 0,y				0837 8D 0C D4		STA	V2+5
	SPRITEY	=	\$D001	;		LDA	#\$0
sprite 0,x			0001771	083A A9 00		LDA STA	#⊅∪ V3+1
	PLANEX	=	SPRITEX	083C 8D 0F D4 083F 8D 0E D4		STA	V3 + 1 V3
sprite 0,y	DI ANEV	_	CDDITEV	0842 A9 20		LDA	#\$20
	PLANEY	=	SPRITEY	0844 8D 13 D4		STA	γφ20 V3+5
;sprite 1,x	CHASEX	_	SPRITEX+2	0847 A9 7F		LDA	#\$7F
080D	CHASEA		JI III LAT L	0849 8D 14 D4		STA	V3+6
sprite 1,y	CHASEY	=	SPRITEY+2	084C A9 81		LDA	#\$81
080D ;sprite bit 9	UTIAGET		SI MILLI I Z	084E 8D 12 D4		STA	V3+4
,sprite bit 9	MSB	=	\$D010	:			
;spr-spr collisions			450.0	0851 A9 01		LDA	#\$1
080D	SSCREG	=	\$D01E	0853 8D 03 D4		STA	V1+3
;spr-bkg collisions			*	0856 A9 19		LDA	#\$19
080D	SBCREG	=	\$D01F	0858 8D 05 D4		STA	V1+5
; sprite enable				1			
080D	SPRITEN	=	\$D015	085B A9 00		LDA	#0
;				085D 8D 24 18		STA	ZIPFREQ
080D	SID	_	\$D400	;			
080D	V1	=	SID	; set difficulties		JSR	CONFIG
080D	V2	=	SID + 7	0860 20 6B 13		Jon	CONFIG
080D	V3	=	SID + \$E	; draw screen 0863 20 E9 11		JSR	DRAW
080D	JUY2	_	\$DC00 \$DC01	0866 A9 30		LDA	#\$30
080D	SID V1 V2 V3 J0Y2 J0Y1	_	<b>ゆいしひ</b> 1	0060 40 06		IDV	#6 #6
; video initialize				086A 99 C8 07	SINITLUP	STA	SCORE,Y
080D	CINT	=	\$FFB5	086D 88	J 11. EU.	DEY	
	51111		4.100	086E D0 FA		BNE	SINITLUP
080D	SCORE	=	\$7C8	0870 8C 20 18		STY	PLAYNUM
080D 080D	SCORE2	=	\$7E1				
				0873 AC 28 18		LDY	MULTI
*********	*******	*****	******	0876 30 12		BMI	SPFREE
*	cod	e	*	0878 A0 06		LDY	#6
**********	********	*****	*****	087A 99 E1 07	S2INIT	STA	SCORE2,Y
;				087D 88		DEY	COINIT
080D	START	=	*	087E D0 FA 0880 A9 32 0882 8D C6 07		BNE LDA	S2INIT #\$32
; set screen c	olors	104	ш4 А	0880 A9 32 0882 8D C6 07		STA	#\$32 \$7C6
080D A9 0E		LDA		0882 80 C6 U/ 0885 A9 31		LDA	#\$31
080F 8D 21 D0		sta Lda	\$D021 #2	0885 A9 31 0887 8D DF 07		STA	\$7DF
0812 A9 02		LUA STA	#2 \$D020			JIA	VI 01
0814 8D 20 D0		SIA	φυυζυ	; free all sprite	95		
; init sound				088A A9 FC	SPEREE	LDA	#\$FC
, IIII SOUIIU				088C 8D 03 18		STA	INUSE
i				2300 02 23 10		-	

i		A #11 X #4 A VELOCE,X ( X #\$10 E IVLUP  R PLANE A #8 A QUAN A QUAN+1 P PRESET   Mplete  A #0 A FIRE A LASTSHOT  R ZIPPER A LNCHTIME IP #\$FF E ML1 A DELTAX P #\$8 C CC1 P #\$F8 C ML1 DELTAY P #\$08 C CC2 P #\$F8 C ML1	090A 20 6C 0A		JSR	DISABLE
088F A9 0B	LD.	A #11	090D 0E 1D 18	SCL1	ASL	Masktemp
0893 9D DR 17 I	VILIP ST	A #4 A VELOCE Y	0910 E8 0011 E0 06		INX	πе
0896 E8	IN)	(	0913 D0 EB		BNF	SCLUP
0897 E8	INX	(	;		2.12	0020
0898 E0 10	CP.	X #\$10	0915 A5 A1		LDA	\$A1
089A DU F7	BN	E IVLUP	0917 CD 1F 18		CMP	OLDJIF
: start interrupt			091C 8D 1F 18		STA	ULD IIE
089C 20 7F 0D	JSF	r Plane	091F 20 71 0C		JSR	SCORTEN
,			0922	FTEND	=	•
U89F A9 U8 NRA1 RD 21 18	LD/	A #8 N OLIAN	; shook shoos	e timos		
08A4 8D 22 18	STA	A QUAN+1	1922 AD OF 18	i misi	LDA	LNCHTIME
08A7 4C 3D 0B	JM	P PRESET	0925 10 21		BPL	CHASEND
;			0927 C9 C0		CMP	#\$C0
. *	initializationa oor	**************************************	0929 F0 1D		BEQ	CHASEND
*********		iipiete	092B C9 FF		DMP BEO	#\$FF CHASEND
;			092F 20 F4 0B		JSR	CHASLNCH
; check sprite co	ollisions		0932 90 07		BCC	LNCHSUCC
08AA A9 00 N	VIAINENT LD/	A #0	0934 A9 C0		LDA	#\$C0
08AF 8D 02 18	31 <i>F</i> 317	A FIRE A LASTSHOT	0330 DU UU		SIA	LNCHTIME
;	0.,	Lioronoi	093B A9 FF	LNCHSUCC	LDA	#\$FF
08B2 20 61 0D N	MAINLUP JSF	R ZIPPER	093D 8D 0E 18		STA	LNCHTIME
08B5 AD 0E 18	LD/	A LNCHTIME	0940 A9 80		LDA	#\$80
0884 DO 22	UM RNI	IP #SFF F MI1	0942 8D 19 18		STA	DELTAX
08BC 20 3C 0D	JSF	R WHOOSH	0948 OD IA 18	CHASEND	SIA =	DELIAT
08BF AD 19 18	LDA	A DELTAX	;	011102112		
08C2 C9 08	CM	P #\$8	; check if base	es destroyed		
08C6 C9 F8	BUU	U CCT D #6E8	0948 AO 09		LDY	#9 ##FF
08C8 90 14	BC	C ML1	094C D9 04 18	DBCLUP	CMP	RASCIOCK Y
08CA AD 1A 18 C	CC1 LD/	A DELTAY	094F F0 0D		BEQ	DBCEND
08CD C9 08	CM	P #\$08	0951 88		DEY	
0801 C9 F8	CM	J UUZ D #6E8	0952 D0 F8		BNE	DBCLUP
08D3 90 09	BC	C ML1	0957 C9 C0		CMP	#\$CO
08D5 20 46 0D C	CC2 JSF	WH00SH0F	0959 D0 03		BNE	DBCEND
08D8 20 79 0D	JSF	R ZIPOFF	095B 4C 04 0B		JMP	ENDROUND
000B 4C 14 0B	JMI	P MISSUCC	095E	DBCEND	_	•
:			: check sprite	- background		
; check fire butto	on		095E AD 1F D0	- I I I I I I I I I I I I I I I I I I I	LDA	SBCREG
08DE AD 01 18 N	/L1 LD/	N FIRE	0961 8D 0F 18		STA	REGTEMP
08F3 20 83 0A	DEU RZI.	NILZ NILZ	0964 29 01 0966 ED 09		AND	#1 CDC1
;	001	CHONON	0968 20 39 0A		JSR	PLANCESH
; check pause			096B 20 46 0D		JSR	WHOOSHOF
UBED /B N	ILZ SEI	#¢ED	096E 4C 3D 0B	0001	JMP	PRESET
08E9 8D 00 DC	STA	\ #⊅r∪ . \$000	09/1 AD 0F 18	SBC1	LUA	REGTEMP
OSEC AD 01 DC	LDA	\$DC01	0976 F0 03		BEQ	SBC2
08EF 29 80	AND	) #\$80	0978 20 13 0A		JSR	CHASCRSH
08F1 F0 F3	BEQ	ML2	097B AD 0F 18	SBC2	LDA	REGTEMP
08F5 8D 00 DC	STA	\ #⊅F/ \$DC00	09/E 29 FC		AND	#\$FC
08F8 58	CLI	Ψ5000	0982 4C B2 08		JMP	MAINI LIP
		MISSUCC  A FIRE I ML2 LAUNCH  **\$FD \$ \$DC00 \$ \$DC01 0 #\$80 ME7 \$ \$DC00  #\$F7 \$ \$DC00  #\$F7 \$ \$DC00	;		J	
; check shot cloc	cks	шл	; successful st	not	071	DECTE:
08FB 8D 1D 18	LUA STA	MASKTEMP	USOS OU UF 18	BAUKUHEUK	SIA	HEGIEMP
08FE A2 00	LDX	#0	098A 8D 1E 18		STA	SHOTMASK
0900 BD FB 17 Se	CLUP LDA	SHOTCLOCK,X	098D AA		TAX	
0903 C9 7F	CMI	P #\$7F				
0907 AD 1D 18	I DA	MASKTEMP	; which shot	SCHKLLID	LDA	CHULINAGA
	LUA	- INDIVILIAN	OSOL AD IL 10	JUNKLUF	LUM	SHUTIMAN

0991 2D 0F 18		AND	REGTEMP SCH1 BASCHK SHOTMASK	0A0C 99 99 07 0A0F 99 9A 07			\$799,Y
0994 F0 03		BEQ	SCH1	0A0F 99 9A 07		STA	\$79A,Y
0996 20 A5 09	CCU4	JSR	BASCHK	0A12 60	NOROCKET	RTS	
0999 UE 1E 10	эспі	INX	SHUTIVIASIN	:	NONCONET		
099D E8	SCH1	INX		; chaser crash			
099E EO 10		CPX	#\$10	0A13 AD 0E 18	CHASCRSH	LDA	LNCHTIME
09A0 D0 EC		BNE	SCHKLUP	0A16 C9 FF		CMP	#\$FF
U9A2 40 B2 U8		JIVIP	WAINLUP	0A10 D0 1E		JSR	SCOR100
: which rocket				0A1D 20 31 0D		JSR	CRASH
09A5 2D 10 D0	BASCHK	AND	MSB	0A20 A9 00		LDA	#0
09A8 F0 02		BEQ	BASCHK1	0A22 8D C7 17		STA	PXVHI+2
09AA 38		SEC	¢24	0A25 8D C8 17		STA	INCHTIME
09AD 24 09AC 18	RASCHK1	CLC	<b>\$24</b>	0A2B A9 E2		LDA	#226
09AD BD 00 D0	Bricorii	LDA	PLANEX,X	0A2D 8D 03 D0		STA	CHASEY
09B0 6A		ROR		0A30 A9 02		LDA	#2
09B1 38		SEC	ueo	0A32 8D 28 D0		SIA	MHUUGHUE \$D058
0982 E9 08		BCS	#\$0 RC1	0A33 20 40 0D	CCDUN	RTS	WITOOSITO
09B6 A9 00		LDA	#0	:	0020		
09B8 C9 A0	BC1	CMP	#\$A0	0A39 A9 00	PLANCRSH	LDA	#0
09BA 90 02		BCC	BC2	0A3B 8D C5 17		STA	PXVHI
098C A9 90	DC2	LUA	#\$90	0A3E 8D C6 17		I DA	#226
OGRE 4A	DU2	LSR		0A43 8D 01 D0		STA	PLANEY
09C0 4A		LSR		0A46 A9 02		LDA	#2
09C1 4A		LSR		0A48 8D 27 D0		STA	\$D027
09C2 A8		TAY		0A4B A9 01		LDA OBA	#1 \$D010
is it a rocket				0A50 8D 1C D0		STA	\$D01C
09C3 B9 04 18		LDA	#\$10 SCHKLUP MAINLUP  MSB BASCHK1  \$24 PLANEX,X  #\$8 BC1 #0 #\$A0 BC2 #\$90  BASCLOCK,Y #\$FF	;			
09C6 C9 FF		CMP	#\$FF	0A53 20 79 0D		JSR	ZIPOFF
09C8 D0 48		BNE	NOROCKET	0A56 20 31 0D		JSK	UKASH #\$CD
09CA A9 C0		LUA	#\$CU OCK V	0A39 AU CU		STY	#\$CU \$A2
09CF A9 00		LDA	#0	0A5D AD 1F D0	PCWAIT	LDA	SBCREG
09D1 9D C5 17		STA	PXVHI,X	0A60 29 02		and	#2
09D4 9D C6 17		STA	PYVHI,X	0A62 F0 03		BEQ	PCFIN
09D7 A9 E2		LDA	#226 DLANEV V	UA64 20 13 UA	DCEIN	1 UA 194	CHASCHSH \$42
0909 90 01 00		I DA	PLANET, A PLANEX X	0A69 D0 F2	1 Of IN	BNE	PCWAIT
09DF 38		SEC	· C. U.L. I, · ·	0A6B 60		RTS	
09E0 E9 10		SBC	#\$10				
09E2 29 E0		AND	#\$E0	; turn on sno	DIÇARI E	ΩRA	INLISE
09E4 18		ADC	#\$1C	0A6F 8D 03 18	DISABLE	STA	INUSE
09E7 9D 00 D0		STA	PLANEX.X	0A72 AD 1D 18		LDA	MASKTEMP
09EA 20 8C 0C		JSR	SCOR50	0A75 49 FF		EOR	#\$FF
09ED 8A		TXA		0A77 2D 15 D0		AND	SPRITEN
U9EE 4A		LOH		0A7A 6D 13 DO		IDA	#\$FE
09EF AA 09E0 A9 40		LDA	#\$40	0A7F 9D FA 07		STA	2042,X
09F2 9D F9 17		STA	SHOTCLOCK-2,X	0A82 60		RTS	
09F5 A9 FF		LDA	#\$FF	i lawash sast	har abat		
09F7 9D F8 07		SIA	2U4U,X	NARS AD NO 18	I ALINCH	LDA	LASTSHOT
OGER OA		ASI		0A86 C9 1C	Litorion	CMP	#\$1C
09FC AA		TAX		0A88 B0 06		BCS	LLAUNCH
1				0A8A A9 00		LDA	#0 cide
; erase it		ICD	CDACH	UABC BD UI 18		RTS	FINE
09FD 20 31 0D		TYA	OIMOII	0A90 AD 03 18	LLAUNCH	LDA	INUSE
0A01 0A		ASL		0A93 D0 01		BNE	LAUNCH1
0A02 0A		ASL		0A95 60		RTS	
0A03 A8		TAY	BASCLOCK,Y #\$FF NOROCKET #\$C0 BASCLOCK,Y #0 PXVHI,X PYVHI,X #226 PLANEY,X #10 #\$E0 #\$1C PLANEX,X \$COR50  #\$40 SHOTCLOCK — 2,X #\$FF 2040,X  CRASH	;	ehot		
UAU4 A9 0U NANA QQ 71 N7		STA	#ФОО \$771 Y	0A96 A9 00	LAUNCH1	LDA	#0
0A09 99 72 07		STA	#\$60 \$771,Y \$772,Y	; ; find unused 0A96 A9 00 0A98 8D 01 18		STA	FIRE
••							

0A9B 8D 02 18 0A9E A9 04 0AA0 AA 0AA1 A8  10AA2 2D 03 18 0AA8 D0 0A 0AA7 98 0AA8 0A 0AA3 E8 0AAC E0 10 0AAE B0 1D 18 0AB 0B 1D 18 0AB 1D 15 D0 0AB 8D 1D 18 0AB 0D 15 D0 0AB AD 1D 18 0AB 1D 18 0AB 0B 1B 18 0AC 0B 18	STA	LASTSH0T	0B1C 8D C6 17		STA	PYVHI
0A9E A9 04	LDA	#4	0B1F 8D C8 17		STA	CYVHI
UAAU AA	TAX		0B22 20 31 0D		JSR	CRASH
UAAT AB	IAI		0023 AD 10 DU		ODA	<b>Φ</b> D010
DAA2 2D 03 18 INCHILIP	AND	INLISE	0824 8D 1C D0		STA	\$D01C
OAA5 DO OA	BNE	LNCHIT	0B2D A9 02		IDA	#2
0AA7 98	TYA		0B2F 8D 27 D0		STA	\$D027
OAA8 OA	ASL		0B32 8D 28 D0		STA	\$D028
OAA9 A8	TAY		0B35 A9 C0		LDA	#\$C0
DAAA E8	INX		0B37 85 A2		STA	\$A2
UAAB EB	INX	<b>#</b> €10	0839 A5 A2	SUCCWAIT	LUA	\$A2
NAME DO E2	DNE	#DIO	0030 DU FC		BNE	SUCCWAIT
0ABO 60	RTS	LINOTILOT	: reset position	ns		
;			0B3D 78	PRESET	SEI	
; mark it and turn it on			0B3E A9 64		LDA	#100
0AB1 8D 1D 18 LNCHIT	STA	MASKTEMP	0B40 8D 00 D0		STA	PLANEX
0AB4 0D 15 D0	UKA	SPRITEN	0B43 A9 64		LDA	#100
NARA AN IN IR LARI	I DA	MACKTEMP			SIA	PLANET
OARD 49 FF	FOR	#\$FF	0848 A9 00		ΙDΔ	#0
OABF A8	TAY		0B4A 8D 10 D0		STA	MSB
0ACO 2D 03 18	AND	INUSE	0B4D A9 01		LDA	#1
0AC3 8D 03 18	STA	INUSE	0B4F 8D 15 D0		STA	SPRITEN
			0B52 A9 F0		LDA	#240
CACE AD 10 DO	LDA	MCD	0854 8D F8 07		SIA	2040
0AC9 29 01	AND	#1	0850 AS UF		STA	#&F \$D027
OACB FO OC	BEQ	Ľi1	0B5C A9 FE		LDA	#SFE
OACD AD 1D 18	LDA	MASKTEMP	0B5E 2D 1C D0		AND	\$D01C
0AD0 0D 10 D0	ORA	MSB	0B61 8D 1C D0		STA	\$D01C
0AD3 8D 10 D0	STA	MSB	;			
OADO OO 111	JMP	LIZ	0B64 A9 00		LDA	#0 .
0AD9 90 LII 0ADA 2D 10 D0	ΔND	MSR	0000 00 AU 0868 85 A1		SIA	\$AU \$A1
0ADD 8D 10 D0	STA	MSB	0B6A 85 A2		STA	\$A2
OADA 2D 10 D0 OADD 8D 10 D0 : :	•		0B6C 8D 1F 18		STA	ÖLDJIF
; same place, same speed	j		;			
0AE0 AD C5 17 LI2	LDA	PXVHI	; establish bas	ses		
UAES 9D CO 17	SIA	PXVHI,X	UB6F 20 52 13		JSR	DRWSCREEN
DAFO OD CO 17	STA	PYVHIY	0874 AZ 09		LDA	#9 #¢cc
OAEC AD 00 D0	LDA	PLANEX	0876 9D 04 18	NEWBASLUP	STA	BASCLOCK,X
0AEF 9D 00 D0	STA	PLANEX,X	0B79 CA		DEX	200200.4,1
0AF2 AD 01 D0	LDA	PLANEY	0B7A 10 FA		BPL	NEWBASLUP
0AF5 9D 01 D0	STA	PLANEY,X	;			
· cat dicable timer			; 0B7C A9 00 0B7E 8D 0E 18 0B81 AD 1F D0 0B84 AD 1E D0		LUA	#U
OAF8 8A	TXA		OBYE OD DE 10		) IA	LNCHTIME
OAF9 4A	LSR		0B84 AD 1E D0		LDA	SSCREG
OAFA A8	TAY		;			0001120
: set disable timer 0AF8 8A 0AF9 4A 0AFA AB 0AFB A9 00 0AFD 99 F9 17	LDA	#0	; change playe	ers		
UAFD 99 F9 17	STA	SHOTCLOCK — 2,Y	0B87 2C 28 18	CHANGEP	BIT	MULTI
0000 50	CLI		088A 30 1C		BMI	LIFELOSS
0801 4C 4C 0D	IMP	7IP	088E RQ C5 07	CWITCHI D	LDY	#9 SCORE — 3,Y
0800 58 0801 4C 4C 0D	OIVII	LII	OBOL DO CO OF	SWITCHEF	TAX	300nc - 3,1
: 0804 AE 20 18 ENDROUNI 0807 FE 21 18 080A AO 0A 080C 20 A7 0C BONUSLUF 080F 88 0810 D0 FA 0812 FO 29	) LDX	PLAYNUM	0B92 B9 DE 07		LDA	SCORE2 - 3,Y
0B07 FE 21 18	INC	QUAN,X	0B95 99 C5 07		STA	SCORE - 3 Y
0B0A A0 0A	LDY	#10	0B98 8A		TXA	
UBUL 20 A/ UC BUNUSLUF	, JSK	SCUR100	0B99 99 DE 07		STA	SCORE2-3,Y
0B10 D0 FA	BNE	RONUSLUP	0880 ∪0 EE		DEL	SWITCHLP
0B12 F0 29	BEQ	PRESET	089F A9 01		I DA	#1
			0BA1 38		SEC	
; stop motion			0BA2 ED 20 18		SBC	PLAYNUM
0B14 A9 00 MISSUCC	LDA	#0	0BA5 8D 20 18		STA	PLAYNUM
0814 A9 00 MISSUCC 0816 8D C5 17 0819 8D C7 17	SIA	CANTI	, DDAG AT OD 40	LIEFLOCO	LDV	DI MARINA
וו וט טט נוטט	SIA	OVALI	087C A9 00 087E 80 0E 18 0881 AD 1F D0 0884 AD 1E D0 : :	LIPELUSS	LUX	PLAYNUM

08AB BE 08AE DO 08B0 AO 08B2 2C 08B5 30 08B7 C8	) 21 18 ) 13 ) 00 ; 28 18   01	ONEDI AV	LDA BNE LDY BIT BMI INY	QUAN,X PLAYIT #0 MULTI ONEPLAY QUAN,Y CHANGEP ONEPLAY ENDALL QUAN,X #\$31 \$7706  JOY1 JOY2 #\$10 WAITLUP JOY1 JOY2 #\$10 WAITLUP #0 PYVHI CXVHI #85 PXVHI	0C2A 0D 10 D0 0C2D 8D 10 D0 0C30 D0 08 0C32 A9 FD 0C34 2D 10 D0 0C37 8D 10 D0	CMSB1 ·	ORA STA BNE LDA AND STA	MSB MSB CMSB2 #\$FD MSB MSB
0888 DC 088D 88 088E 10 08C0 4C 08C3 DE 08C6 BE	) CA ) F8 ) F8 C AE OC E 21 18 ) 21 18	PLAYIT	BNE DEY BPL JMP DEC LDA	CHANGEP  ONEPLAY ENDALL QUAN,X QUAN,X	0C3A 68 0C3B 18 0C3C 69 1C 0C3E 8D 02 D0 0C41 A9 E2 0C43 8D 03 D0	CMSB2	PLA CLC ADC STA LDA STA	#\$1C CHASEX #226 CHASEY
08C9 18 08CA 69 08CC 8E	3 9 31 9 D6 07 It for butto	าก	CLC ADC STA	#\$31 \$7D6	0C46 A9 F7 0C48 8D F9 07 0C4B A9 AB 0C4D 8D C8 17		LDA STA LDA STA	#247 2041 #171 CYVHI
0BCF AL 0BD2 2D 0BD5 29 0BD7 D0 ;	01 DC 0 00 DC 0 10 0 F6	WAITLUP WAITLUP1	LDA AND AND BNE LDA	JOY1 JOY2 #\$10 WAITLUP JOY1	0C50 AD 1F D0 0C53 2C 11 D0 0C56 30 FB 0C58 AD 12 D0 0C5B C9 F2	RWAITLUP	LDA BIT BMI LDA CMP	SBCREG \$D011 RWAITLUP \$D012 #\$F2
0BDC 20 0BDF 29 0BE1 FC ; ; sta	0 00 DC 9 10 9 F6 rt again		AND AND BEQ	JOY2 #\$10 WAITLUP1	0C5D D0 F4 ; 0C5F A9 07 0C61 8D 28 D0 0C64 A9 02 0C66 0D 15 D0		LDA STA LDA ORA	#7 \$D028 #2 SPRITEN
0BES AS 0BES 80 0BE8 AS 0BED 80 0BF0 58	0 C6 17 0 C7 17 9 55 0 C5 17		STA STA LDA STA CLI	#0 PYVHI CXVHI #85 PXVHI	0C60 8D 15 D0 0C69 8D 15 D0 0C6C AD 1F D0 0C6F 18 0C70 60		STA LDA CLC RTS	SPRITEN SBCREG
; 0BF1 40 ; lau	C AA 08	er	JMP	MAINENT	; add to score 0C71 48 0C72 8A	and update SCORTEN	PHA TXA	
0BF4 AG 0BF6 BS 0BF9 CS 0BFB FC 0BFD 88 0BFE 10 0C00 AS 0C02 21 0C05 BI 0C08 33 0C09 66	9 04 18 9 FF 0 0D 3 0D 5 F6 9 FD 0 15 D0 0 15 D0	CHASLNCH FBASLUP	LDY LDA CMP BEQ DEY BPL LDA AND STA SEC RTS	#9 BASCLOCK,Y #\$FF CHASIT FBASLUP #\$FD SPRITEN SPRITEN	0C73 48 0C74 A2 05 0C76 FE C8 07 0C79 A9 3A 0C7B DD C8 07 0C7E D0 08 0C80 A9 30 0C82 9D C8 07 0C85 CA 0C86 D0 EE 0C88 68	CARRYLUP	PHA LDX INC LDA CMP BNE LDA STA DEX BNE PLA TAX	#5 SCORE,X #\$3A SCORE,X CARRYEND #\$30 SCORE,X CARRYLUP
0C0A A 0C0C 99 0C0F 99 0C10 00 0C11 00 0C12 A 0C13 A 0C15 99 0C18 99 0C1E 99	9 CO 9 O4 18 8 A A 8 9 60 9 71 07 9 72 07 9 99 07 9 9A 07	CHASIT	LDA STA TYA ASL ASL TAY LDA STA STA STA	MAINENT  #9 BASCLOCK,Y #\$FF CHASIT FBASLUP #\$FD SPRITEN SPRITEN  #\$C0 BASCLOCK,Y  #\$60 \$771,Y \$772,Y \$799,Y \$799,Y \$79A,Y  CMSB1 #2	0C8A 68 0C8B 60 ; 0C8C 48 0C8D 8A 0C8E 48 0C8F AD CD 07 0C92 18 0C93 69 05 0C95 C9 3A 0C97 B0 05	SCOR50	PLA RTS PHA TXA PHA LDA CLC ADC CMP BCS STA	SCORE+5 #5 #\$3A CARRY50 SCORE+5
0C21 90 0C22 00 0C23 00 0C24 00 0C25 40 0C26 9	8 A A A 8 0 OA		TYA ASL ASL ASL PHA BCC	CMSB1	0C9C DO EA 0C9E E9 0A 0CAO 8D CD 07 0CA3 A2 04 0CA5 DO CF	CARRY50	BNE SBC STA LDX BNE	CARRYEND #\$A SCORE + 5 #4 CARRYLUP
0020 A	3 02		LDA	πL	טרו דט	55011100	1101	

0CA8 8A		TXA		OD3C A9 FF OD3E 38 OD3F ED 03 D0 OD42 8D 0F D4 OD45 60	WHOOSH	LDA	#\$FF
OCA9 48		PHA	#4 CARRYLUP	0D3E 38		SEC	
0CAA A2 04		LDX	#4	0D3F ED 03 D0		SBC	CHASEY
OCAC DO C8		BNE	CARRYLUP	0D42 8D 0F D4		SIA	V3+1
· end of game				0045 60		HIS	
OCAF 78	FNDALI	SEL		0D46 A9 00	WHOOSHOE	I DA	#0
OCAF A9 31	LITERICE	LDA	#\$31	0D48 8D 0F D4	***************************************	STA	₩3+1
0CB1 8D 14 03		STA	\$314	0D4B 60		RTS	
OCB4 A9 EA		LDA	#\$EA				
0CB6 8D 15 03		STA	\$315	0D4C A9 18	ZIP	LDA	#\$18
0CB9 58		CLI		0D4E 8D 24 18		STA	ZIPFREQ
OCBA A9 30		LDA	#\$30	0D51 A5 A2		LDA	\$A2
00BC 8D D8 07		SIA	\$700	0D56 AO 40		SIA	ZIPTIME #\$40
00DF 20 04 FF		IDV	#MSCEND MSC	0D30 A3 40		CTA	V1+4
0002 A0 10	MSGLUP	IDA	MSG Y	0D5R A9 41		IDA	#\$41
0CC7 C9 40	modeo.	CMP	#\$40	0D5D 8D 04 D4		STA	V1+4
OCC9 90 03		BCC	MSGLPUT	0D60 60		RTS	
0CCB 38		SEC		;			
0CCC E9 40		SBC	#\$40	0D61 A5 A2	ZIPPER	LDA	\$A2
OCCE 99 08 04	MSGLPUT	STA	\$40B,Y	0D63 CD 23 18		CMP	ZIPTIME
0CD1 A9 03		LUA	#3	0D66 FU 10		BEU	ZIPEND
0003 99 08 08		DEV	<b>⊅</b> D80B, f	0D60 8D 23 18		SIA	Ziptime Zipfreq
NCD7 DO FR		RNF	MSGLUP	0D0B AD 24 10		CMP	#\$30
0CD9 C8		INY	WOOLO	0D70 B0 07		BCS	ZIPOFF
0CDA 8C 25 18		STY	RESP	0D72 8D 01 D4		STA	V1+1
0CDD AD 25 18	GETLUP	LDA	RESP	0D75 EE 24 18		INC	ZIPFREQ
OCEO DO OC		BNE	GLTR	1			
OCE2 A9 2D		LDA	#\$2D	0D78 60	ZIPEND	RTS	
0CE4 8D 19 04		SIA	\$419	; 0D70 40 00	710055	104	<b>#</b> 0
00E/ A9 3E		LUA	#\$3E #41A	0D79 A9 00	ZIPUFF	LUA	#0 \/1 1
OCES OD IN US		BNE	GETI LIDO	0D/B 0D 01 D4		DIA	V1+1
OCEF A9 3C	GLTR	IDA	#\$3C	:		1110	
0CF0 8D 19 04	<b></b>	STA	\$419	: set up interr	upt		
OCF3 A9 2D		LDA	#\$2D	0D7F 78	PLANE	SEI	
OCF5 8D 1A 04		STA	\$41A	0D80 A9 91		LDA	# <intlup< td=""></intlup<>
OCF8 AD 00 DC	GETLUP2	LDA	J0Y2	0D82 8D 14 03		STA	\$314
OCER SD OF DC		AND	JUY1	0D85 A9 0D		LUA	#>INTLUP
OCEE 4A		LON		0001 00 12 02		I DA	\$315 #14
0011 4A 0000 4A		LSR		0D0A A5 02 0D8C 8D 05 DC		STA	56325
0D01 B0 05		BCS	GL1	0D8F 58		CLI	00000
0D03 A0 01		LDY	#1	;			
0D05 8C 25 18		STY	RESP	0D90 60		RTS	
0D08 4A	GL1	LSR		;			
0D09 B0 05		BCS	GL2	************			
000B AU 00		CTV	#U DECD		interrrupt mov	ement c	······································
0D0D 60 23 10	GI 2	ISR	nlor	:			
0D11 BO CA	GLL	BCS	GETLUP	0D91	INTLUP	_	•
0D13 20 81 FF		JSR	\$FF81	:			
0D16 AD 25 18		LDA	RESP	; read joystick	(		
0D19 F0 03		BEQ	GET1	; & change v	elocities		
0D1B 4C 0D 08		JMP	START	0D91 AD 00 DC		LDA	JOY2
003E 85 C6	GEIT	SIA	<b>\$U</b> 6	UD94 2D 01 DC		AND	JOY1
0020 00		BHK		0004 AD CE 17		SIA	jtemp PXVHI
nn21	MSG	_	*-1	0D9A AD C5 17		ORA	PYVHI
0D21 50 4C 41	Wiod	ASC	"olav again? v n"	0DA0 D0 03		BNF	PM1
0D31	MSGEND	=	*-1	0DA2 4C 39 0E		JMP	CHASE
;			#4 CARRYLUP  #\$31 \$314 #\$EA \$315 #\$30 \$706 \$FF84 #MSGEND — MSG MSG,Y #\$40 MSGLPUT  #\$40 \$40B,Y #3 \$D80B,Y  MSGLUP  RESP RESP RESP GLTR GLTR #\$11 #\$2D \$419 #\$32 \$41A JOY2 JOY1  GL1 #1 RESP GL2 #0 RESP GETLUP \$FF81 RESP GETLUP \$FF81 RESP GETLUP \$FF81 RESP GETLUP \$500 \$419 #500 #500 #500 #500 #500 #500 #500 #50				
0D31 A9 80	CRASH	LDA	#\$80	0DA5 AD 26 18	PM1	LDA	JTEMP
0D33 8D 0B D4		SIA	V2+4	UDA8 29 10		AND	#\$10
UDS BU UD UV		LUA STA	#Ф01 \/2 → 4	0DAA DU U3		INC	NOTJSTICK FIRE
0D3B 60		RTS	#\$80 V2+4 #\$81 V2+4	:		INC	INL
;		0		ODAF AD 26 18	NOTJSTICK	LDA	JTEMP
-							

ODB2 29 03	AND	#3	;		
0DB4 C9 03	CMP	#3	; find wester from		
ODB6 D0 03 ODB8 4C 39 0E	IMP	CHASE	: find vector from : chaser to plane 0639 AD 00 D0 0630 38 0630 ED 02 D0 0640 90 02 0642 18 0643 24 0644 38 FS1 0645 6A 0646 8D 19 18 :0649 AD 01 D0 0640 SB 0640 ED 03 D0		
	JIVII	GINGE	0F39 AD 00 D0	LDA	PLANEX
; make x velocity increm	ent		0E3C 38	SEC	
ODBR AD D9 17 MAKPING	CR LDA	PRADIUS	0E3D ED 02 D0	SBC	CHASEX
0DBE 8D 14 18	STA	MULTEMP	0E40 90 02	BCC	FS1
0DC1 AD C5 17	LDA	PXVHI	0E42 18	CLC	***
ODC4 8D 12 18 ODC7 20 A7 11 ODCA AD 26 18	STA	X1	0E43 24	.BYTE	\$24
0DC/ 20 A/ 11	JSK	MULTIPLY	0545 6A FS1	SEC	
0DCD 29 02	AND	JIEIVIP #2	0E45 0A 0E46 8D 10 18	ATS	DELTAX
0DCF D0 16	RNE	.IDDWN1		JIA	DELIAN
:	UNL	ODOMA	0E49 AD 01 D0	LDA	PLANEY
; move up			0E4C 38	SEC	
ODD1 38 ODD2 AD D6 17 ODD5 ED 10 18 ODD8 8D D6 17 ODD8 AD C6 17 ODDE ED 11 18 ODE1 8D C6 17	SEC		0E4D ED 03 D0	SBC	CHASEY
0DD2 AD D6 17	LDA	PYVLO	0E50 90 02	BCC	FS2
0DD5 ED 10 18	SBC	PROD	0E52 18	CLC	
0DD8 8D D6 17	STA	PYVLO	0E53 24	.BYTE	\$24
0008 AD C6 17	LUA	PYVHI DDOD + 1	UE34 38 FS2	250	
ODE1 8D C6 17	STA	PNUUT I	0E55 0A 0E56 9D 1A 19	ATS	DELTAY
	JIA	1 1 4111	; 0E49 AD 01 D0 0E4C 38 0E4D ED 03 D0 0E50 90 02 0E52 18 0E53 24 0E54 38 FS2 0E55 6A 0E56 8D 1A 18 :	JIA	DELINI
ODE4 4C FA OD	JMP	MAKPYINC	0E56 8D 1A 18 :		
; move down			0E59 A9 03	LDA	#3
ODE7 18 JDOWN1	CLC		0E5B 2D 10 D0	AND	MSB
ODE8 AD D6 17	LDA	PYVLO	0E5E F0 2E	BEQ	SCALIT
ODER 6D 10 18	AUC	PROD	0E60 C9 03	CMP	#3
0DE1 AD CC 17	SIA	PYVLU	0E64 C0 01	CMD	SCALIT #1
0DF1 AD CO 17	YDC	PPOD 1	0E64 C9 U1	BEU	PLUSEAM
0DF7 8D C6 17	STA	PYVHI	:	DLQ	LOSEAN
;	•		; adjust for wrap		
ODFA MAKPYII	VC =	•	0E68 AD 19 18	LDA	DELTAX
			0E6B 38	SEC	
; make y velocity increm	nent	DDADILIO	0E6C E9 80	SBC	#\$80
UDFA AD D9 17	LUA	PHADIUS	0E0E U9 A3	DOC	#\$A5 MSNO
00FD 0D 14 10	) I DA	DVVIII	0E70 BU US 0E72 18	CLC	IVISIVU
0E00 AD 00 17 0E03 8D 12 18	STA	X1	0E73 69 AC	ADC	#\$AC
0E06 20 A7 11	JSR	MULTIPLY	0E75 8D 19 18 MSNO	STA	DELTAX
0E09 AD 26 18	LDA	JTEMP	0E78 4C A6 0E	JMP	SCALDUN
0E0C 29 02	AND	#2	;		
0E0E D0 16	BNE	JDOWN2	0E7B AD 19 18 PLUSEAM	LDA	DELTAX
			0E7E 18	CLC	#\$80
; move up 0E10 18	CL C		0E/F 09 00 0E01 C0 EE	CMD	#\$60 #\$55
0E11 AD D5 17	IDA	PXVIO	0E83 Q0 03	BCC	PSNO
0F14 6D 10 18	ADC	PROD	0F85 38	SEC	1 0.10
0E14 6D 10 18 0E17 8D D5 17	STA	PXVLO	0E86 E9 AC	SBC	#\$AC
0E1A AD C5 17	CLC LDA ADC STA LDA ADC STA	PXVHI	0E88 8D 19 18 PSNO	STA	DELTAX
0E1D 6D 11 18	ADC	PROD+1	0E8B 4C A6 0E	JMP	SCALDUN
0E20 8D C5 17		PXVHI	0E78 4C A6 0E  10E7B AD 19 18 PLUSEAM  0E7E 18  0E7F 69 80  0E81 C9 55  0E83 90 03  0E85 38  0E86 E9 AC  0E88 8D 19 18 PSNO  0E8B 4C A6 0E  10E8E AD 19 18 SCALIT		DELTAY
; 0E23 4C 39 0E	JMP	CHACE	0E8E AD 19 18 SCALIT 0E91 30 09	LUA	Deltax Scmi
	JMP	CHASE	0E91 30 09	CMD	#\$55
OF26 38 IDOM/NO	SEC		0E95 30 0C	BMI	SCNO
0E27 AD D5 17	LDA	PXVLO	0E97 38	SEC	55.15
0E2A ED 10 18	SBC	PROD	0E98 E9 AC	SBC	#\$AC
0E2D 8D D5 17	STA	PXVLO	0E9A 90 07	BCC	SCNO
0E30 AD C5 17	LDA	PXVHI	0E9C C9 A5 SCMI	CMP	#\$A5
UE33 ED 11 18	SBC	PROD+1	UE9E 10 03	BPL	SCN0
; move down DE26 38 JDOWN2 0E27 AD D5 17 0E2A ED 10 18 0E2D 8D D5 17 0E30 AD C5 17 0E33 ED 11 18 0E36 8D C5 17	SIA	PXVHI	UEAU 18	CLC	#\$AC
	*******	******	OEBE AD 19 18 SCALIT OE91 30 09 DE93 C9 55 OE95 30 OC OE97 38 OE98 E9 AC OE9A 90 07 OE9C C9 A5 SCMI OE9E 10 03 OEA0 18 OEA1 69 AC OEA3 8D 19 18 SCNO	STA	#\$AU Deltax
* chase of	nlane with m	ssile *	:	JIA	DELIAN
************	*******	*******	DEA6 SCALDUN	=	*
			UEAU SCALDUN		
; 0E39 CHASE	=	•	; OEA6 AD OE 18	LDA	LNCHTIME

0EA9 30 03 0EAB 4C FD 0F	BMI JMP	ACTV UPDATPOS	0F25 6D 19 18 0F28 8D 1B 18	ADC STA	DELTAX XSCALE
; decide which way to turn			0F2B AD 1C 18	LDA	YSCALE
0EAE A9 00 ACTV 0FR0 2C C8 17	LDA RIT	#0 CYVHI	0F2E 18 0F2F 6D 1A 18	CLC	DELTAY
0EB3 30 09	BMI	QNEG1	0F32 8D 1C 18	STA	YSCALE
0EB5 2C C7 17 0EB8 10 0E	BIT	CXVHI	; 0E35 AD 1B 18	LDA	XSCALE
0EBA A9 01	LDA	#1	0F38 38	SEC	NOUNLE
OEBC DO OA	BNE	QVFIN	0F39 ED C7 17	SBC	CXVHI
OEBE 2C C7 17 QNEG1	BIT	CXVHI	0F3F 10 0E	BPL	COMMFIN1
0EC1 10 03	BPL	QP0S1	0F41 AD 1C 18	LDA	YSCALE
0EC5 2C	.BYTE	#2 \$2C	0F45 ED C8 17	SBC	CYVHI
0EC6 A9 03 QPOS1	LDA	#3	0F48 4D C8 17	EOR	CYVHI
; 0FC8 8D 17 18 OVFIN	STA	VOLIAD	0F4B 30 D4 0F4D 10 17	BMI RPI	SCALLUP COMMFIN
0ECB A9 00	LDA	#0	; wend	0, 2	001111111111
0ECD 2C 1A 18	BIT	DELTAY ONEG2	; : decide which way to go		
0ED2 2C 19 18	BIT	DELTAX	0F4F AD 1C 18 COMMFIN1	LDA	YSCALE
0ED5 10 0E	BPL	QDFIN	0F52 38	SEC	0\0.4.0
OED9 DO OA	BNE	QDFIN	0F56 30 0B	BMI	CYVHI MOVOK
, 0000 00 10 10 00000	DIT	DELTAY	0F58 AC 17 18	LDY	VQUAD
0EDB 2C 19 18 QNEG2 0EDE 10 03	BPI	OPOS2	0F5B CC 18 18 0F5F D0 03	BNF	DQUAD MOVOK
0EE0 A9 02	LDA	#2	0F60 4C FD 0F	JMP	UPDATPOS
OFF3 A9 03 OPOS2	.BY I E	\$2C #3	0F63 A9 00 MOVOK 0F65 2C	LDA RYTE	#0 \$20
:			0F66 A9 01 COMMFIN	LDA	#1
0EE5 8D 18 18 QDFIN	STA	DQUAD	; adjust for various signs		
compare quadrants			0F68 SADJ	=	*
0EE8 AD 17 18 0EER 38	LDA SEC	VQUAD	0F68 2C 19 18	BIT	Deltax CMF1
0EEC ED 18 18	SBC	DQUAD	0F6D 49 01	EOR	#1
OEEF 4A	LSR	COMMORE	0F6F 2C 1A 18 CMF1	BIT	Deltay CMF2
0EFO 90 00 0FF2 29 01	AND	#1	0574 40 04	DFL	UIVIFZ #1
			UF/4 45 UI	EOR	#1
0EF4 8D 16 18	STA	DIRTEMP	0F74 49 01 0F76 AC 17 18 CMF2	EOR LDY	VQUAD
0EF4 8D 16 18 0EF7 4C 83 0F	STA JMP	DIRTEMP CMF3	0F76 AC 17 18 CMF2 0F79 CC 18 18 0F7C F0 05	EOR LDY CPY BEQ	VQUAD DQUAD CMF3
0EF4 8D 16 18 0EF7 4C 83 0F ; 0EFA F0 12 COMMORE	STA JMP BEQ	DIRTEMP CMF3 NOSWAP1	0F76 AC 17 18 CMF2 0F79 CC 18 18 0F7C F0 05 0F7E 49 01	EOR LDY CPY BEQ EOR	VQUAD DQUAD CMF3 #1
0EF4 8D 16 18 0EF7 4C 83 0F  0EFA F0 12 COMMORE If in opposite quads	STA JMP BEQ	DIRTEMP CMF3 NOSWAP1	0F76 AC 17 18 CMF2 0F79 CC 18 18 0F7C F0 05 0F7E 49 01 0F80 8D 16 18	EOR LDY CPY BEQ EOR STA	VQUAD DQUAD CMF3 #1 DIRTEMP
0EFA 8D 16 18 0EFA 4C 83 0F  0EFA FO 12 COMMORE  if in opposite quads 0EFC A9 00	STA JMP BEQ LDA	DIRTEMP CMF3 NOSWAP1 #0	0F76 AC 17 18 CMF2 0F79 CC 18 18 0F7C F0 05 0F7E 49 01 0F80 8D 16 18	EOR LDY CPY BEQ EOR STA	VQUAD DQUAD CMF3 #1 DIRTEMP
0EF4 8D 16 18 0EF7 4C 83 0F : : : :	STA JMP BEQ LDA SEC SBC	DIRTEMP CMF3 NOSWAP1 #0	0F76 AC 17 18 CMF2 0F79 CC 18 18 0F7C F0 05 0F7E 49 01 0F80 8D 16 18 : :	EOR LDY CPY BEQ EOR STA	VQUAD DQUAD CMF3 #1 DIRTEMP  CRADIUS MULTEMP
0EF4 8D 16 18 0EF7 4C 83 0F : : : : : : : : : : : : : : : : : : :	STA JMP BEQ LDA SEC SBC STA	DIRTEMP CMF3 NOSWAP1 #0 DELTAX DELTAX	0F76 AC 17 18 CMF2 0F79 CC 18 18 0F7C F0 05 0F7E 49 01 0F80 8D 16 18 : :	EOR LDY CPY BEQ EOR STA LDA STA LDA	VQUAD DQUAD CMF3 #1 DIRTEMP  CRADIUS MULTEMP CXVHI
0EF4 8D 16 18 0EF7 4C 83 0F : : : : : : : : : : : : :	STA JMP BEQ LDA SEC SBC STA LDA SEC	DIRTEMP CMF3 NOSWAP1 #0 DELTAX DELTAX #0	OF76 AC 17 18 CMF2 OF79 CC 18 18 OF7C FO 05 OFFE 49 01 OF80 8D 16 18 : :	EOR LDY CPY BEQ EOR STA LDA STA LDA STA	VQUAD DQUAD CMF3 #1 DIRTEMP  CRADIUS MULTEMP CXVHI X1
0EF4 8D 16 18 0EF7 4C 83 0F : COMMORE : if in opposite quads 0EFC A9 00 0EFE 38 0EFF ED 19 18 0F02 8D 19 18 0F05 A9 00 0F07 38 0F08 ED 1A 18	STA JMP BEQ LDA SEC SBC STA LDA SEC SBC SBC	DIRTEMP CMF3  NOSWAP1  #0  DELTAX DELTAX #0  DELTAY	OF76 AC 17 18 CMF2 OF79 CC 18 18 OF7C FO 05 OF7E 49 01 OF80 8D 16 18 : :	EOR LDY CPY BEQ EOR STA LDA STA LDA STA JSR LDA	VQUAD DQUAD CMF3 #1 DIRTEMP  CRADIUS MULTEMP CXVHI X1 MULTIPLY DIRTEMP
0EF4 8D 16 18 0EF7 4C 83 0F : : : : : : : : : : : : : : : : : : :	STA JMP BEQ LDA SEC SBC STA LDA SEC SBC STA	DIRTEMP CMF3  NOSWAP1  #0  DELTAX DELTAX #0  DELTAY DELTAY	OF76 AC 17 18 CMF2 OF79 CC 18 18 OF7C FO 05 OF7E 49 01 OF80 8D 16 18 :	EOR LDY CPY BEQ EOR STA LDA STA LDA STA LDA BNE	VQUAD DQUAD CMF3 #1 DIRTEMP  CRADIUS MULTEMP CXVHI X1 MULTIPLY DIRTEMP MOVDOWN1
0EF4 8D 16 18 0EF7 4C 83 0F  if in opposite quads 0EFC A9 00 0EFC A9 00 0EFE 38 0EFF ED 19 18 0F02 8D 19 18 0F05 A9 00 0F07 38 0F08 ED 1A 18 0F08 BD 1A 18 0F08 A9 00 NOSWAP1	STA JMP BEQ LDA SEC SBC STA LDA SEC SBC STA LDA	DIRTEMP CMF3  NOSWAP1  #0  DELTAX DELTAX #0  DELTAY #0  DELTAY #0	OF74 A9 01 OF75 AC 17 18 CMF2 OF79 CC 18 18 OF7C F0 05 OF7E 49 01 OF80 8D 16 18 :	EOR LDY CPY BEQ EOR STA LDA STA LDA STA JSR LDA BNE	VQUAD DQUAD CMF3 #1 DIRTEMP  CRADIUS MULTEMP CXVHI X1 MULTIPLY DIRTEMP MOVDOWN1
0EF4 8D 16 18 0EF7 4C 83 0F  0EFA F0 12 COMMORE	STA JMP BEQ LDA SEC SBC STA LDA SEC SBC STA LDA STA	DIRTEMP CMF3  NOSWAP1  #0  DELTAX DELTAX #0  DELTAY DELTAY DELTAY #0  XSCALE YSCALE	OF74 A9 01 OF76 AC 17 18 CMF2 OF79 CC 18 18 OF7C F0 05 OF7E 49 01 OF80 8D 16 18 : :	EOR LDY CPY BEQ EOR STA LDA STA LDA STA LDA BNE	VQUAD DQUAD CMF3 #1 DIRTEMP  CRADIUS MULTEMP CXVH X1 MULTIPLY DIRTEMP MOVDOWN1
0EF4 8D 16 18 0EF7 4C 83 0F  0EFA F0 12 COMMORE	STA JMP BEQ LDA SEC SBC STA LDA SEC SBC STA LDA STA	DIRTEMP CMF3  NOSWAP1  #0  DELTAX DELTAX #0  DELTAY #0  DELTAY #0  XSCALE YSCALE	0F25 6D 19 18 0F28 8D 1B 18 : 0F28 8D 1B 18 : 0F28 AD 1C 18 0F25 6D 1A 18 0F32 8D 1C 18 0F32 8D 1C 18 0F33 8B 0F39 ED C7 17 0F36 AD 1B 18 0F38 3B 0F39 ED C7 17 0F37 10 0E 0F41 AD 1C 18 0F44 3B 0F45 ED C8 17 0F48 4D C8 17 0F48 4D C8 17 0F48 3D D4 0F4D 10 17 : wend : decide which way to go 0F4F AD 1C 18 0F52 3B 0F53 4D C8 17 0F56 30 0B 0F58 AC 17 18 0F55 CC 18 0F56 CD 00 30 0F60 4C FD 0F 0F63 A9 00 0F66 A9 01 0F66 CC 18 0F66 B1 00 CC 0F66 A9 01 0F66 CC 1A 18 0F68 10 0C 0F66 CC 1A 18 0F68 10 0C 0F66 A9 01 0F67 CC 18 0F68 CC 19 18 0F68 10 0C 0F66 A9 01 0F67 CC 18 0F68 CC 17 18 0F68 CC 19 0F68 CC 17 18 0F68 CC 17 0F76 AC 17 18 0F77 CC 18 0F77 CC 18 0F78 CC 18 0F77 CC 18 0F78 CC 17 0F79 CC 18	EOR LDY BEQ EOR STA LDA STA LDA STA JSR LDA BNE	PROD
0EF4 8D 16 18 0EF7 4C 83 0F  0EFA F0 12 COMMORE  If in opposite quads 0EFC A9 00 0EFC 38 0EFF ED 19 18 0F02 8D 19 18 0F05 A9 00 0F07 38 0F08 ED 1A 18 0F08 BD 1A 18 0F08 BD 1A 18 0F08 BD 1B 18 0F08 A9 00 NOSWAP1 0F10 AD 19 18	STA JMP BEQ LDA SEC SBC STA LDA SEC STA LDA STA LDA STA STA	DIRTEMP CMF3  NOSWAP1  #0  DELTAX DELTAX #0  DELTAY DELTAY #0  XSCALE YSCALE DELTAX BETAY	OF74 49 01 OF76 AC 17 18 CMF2 OF79 CC 18 18 OF7C F0 05 OF7E 49 01 OF80 8D 16 18 : :	EOR LDY BEQ EOR STA LDA STA LDA STA LDA BNE	PROD CYVLO
0EF4 8D 16 18 0EF7 4C 83 0F  0EFA F0 12 COMMORE  If in opposite quads 0EFC A9 00 0EFC 38 0EFF ED 19 18 0F02 8D 19 18 0F03 8D 19 18 0F08 ED 1A 18 0F08 BD 1A 18 0F08 BD 1A 18 0F08 BD 1B 18 0F10 AD 19 18 0F13 BD 1C 18 0F16 AD 19 18 0F19 0D 1A 18 0F10 00 3	STA JMP BEQ LDA SEC SBC STA LDA SEC STA LDA STA LDA ORA BNE	DIRTEMP CMF3  NOSWAP1  #0  DELTAX DELTAX #0  DELTAY DELTAY  #0  XSCALE YSCALE  DELTAX DELTAX DELTAX  DELTAX DELTAY  SCALLUP	OF74 A9 01 OF76 AC 17 18 CMF2 OF79 CC 18 18 OF7C F0 05 OF7E 49 01 OF80 8D 16 18 : : make x increment OF83 AD DA 17 CMF3 OF86 8D 14 18 OF89 AD C7 17 OF86 8D 12 18 OF8F 20 A7 11 OF92 AD 16 18 OF95 D0 16 : : move up OF97 38 OF98 AD D8 17 OF98 ED 10 18 OF98 BD 10 18 OF99 BD D8 17 OF98 ED 10 18 OF98 DD B 17 OF91 AD C8 17 OFA4 ED 11 18	EOR LDY BEQ EOR STA LDA STA LDA STA JSR LDA BNE SEC LDA SBC STA LDA SBC STA LDA STA	PROD
0EF4 8D 16 18 0EF7 4C 83 0F  0EFA F0 12 COMMORE  If in opposite quads 0EFC A9 00 0EFC 38 0EFF ED 19 18 0F02 8D 19 18 0F05 A9 00 0F05 A9 00 0F07 38 0F08 ED 1A 18 0F08 8D 1A 18 0F08 8D 1A 18 0F08 8D 1A 18 0F10 8D 1B 18 0F11 8D 1C 18  0F16 AD 19 18 0F19 0D 1A 18 0F19 0D 1A 18 0F19 0D 1A 18 0F19 0D 1A 18 0F10 DO 03 0F1E 4C FD 0F	STA JMP BEQ LDA SEC SBC STA LDA STA STA LDA ORA BNE JMP	DIRTEMP CMF3  NOSWAP1  #0  DELTAX DELTAX #0  DELTAY DELTAY  #0  XSCALE YSCALE  DELTAX DELTAY  SCALLUP UPDATPOS	OF74 49 01 OF76 AC 17 18 CMF2 OF79 CC 18 18 OF7C F0 05 OF7E 49 01 OF80 8D 16 18 : :	EOR LDY BEQ EOR STA LDA STA LDA STA LDA BNE SEC LDA SBC STA LDA BNE	PROD CYVLO CYVHI PROD+1 CYVHI
0F16 AD 19 18 0F19 0D 1A 18 0F1C DO 03 0F1E 4C FD 0F	LDA ORA BNE JMP	DELTAX DELTAY SCALLUP UPDATPOS	OF9B ED 10 18 OF9E 8D D8 17 OFA1 AD C8 17 OFA4 ED 11 18 OFA7 8D C8 17 OFAA 4C C0 OF	EOR LDY BEQ EOR STA LDA STA LDA BNE SEC LDA BNE SEC STA LDA SBC STA LDA SBC STA LDA STA	PROD CYVLO CYVHI PROD+1
0EF4 8D 16 18 0EF7 4C 83 0F  0EFA F0 12 COMMORE  if in opposite quads 0EFC A9 00 0EFC A9 00 0EFC 38 0EFF ED 19 18 0F05 A9 00 0F07 38 0F08 ED 1A 18 0F08 ED 1A 18 0F08 BD 1A 18 0F18 BD 1B 18 0F18 AD 19 18 0F10 BD 1B 1B 1B 1B 1B 0F10 BD 1B	LDA ORA BNE JMP	DELTAX DELTAY SCALLUP UPDATPOS	OF9B ED 10 18 OF9E 8D D8 17 OFA1 AD C8 17 OFA4 ED 11 18 OFA7 8D C8 17 OFAA 4C C0 OF	SBC STA LDA SBC STA JMP	PROD CYVLO CYVHI PROD+1 CYVHI

OFAE AD D8 17	LDA	CYVLO PROD CYVLO CYVHI PROD+1 CYVHI PROD+1 CYVHI  CRADIUS MULTEMP CYVHI X1 MULTIPLY DIRTEMP MOVDOWN2  CXVLO PROD CXVLO CXVHI PROD+1 CXVHI UPDATPOS  CXVLO PROD CXVLO CXVLO CXVHI PROD+1 CXVHI CXXHI CX	103E	NM2	=	*
0FB1 6D 10 18	ADC	CANIO	; 103F 2C 13 18		RIT	MSBTEMP
0FB7 AD C8 17	IDA	CANHI	103L 2C 13 10		RPI	NOTLEFT
OFBA 6D 11 18	ADC	PROD+1	1043 A9 01		LDA	#1
0FBD 8D C8 17	STA	CYVHI	1045 8D 13 18		STA	MSBTEMP
;			1048 18		CLC	
; make y increment			1049 BD 00 D0		LDA	SPRITEX,X
OFCO AD DA 17 MAKCIN	CR LDA	CRADIUS	104C 69 58		ADC	#\$58
0FC3 8D 14 18	SIA	MULIEMP	104E 9D 00 D0		SIA	SPRITEX,X
0FC0 AD C0 17 0FC9 RD 12 18	STA	Y1	1051 49 01	NOTI FET	I DA	#1
0FCC 20 A7 11	JSR	MULTIPLY	1053 CD 13 18	NOTEL I	CMP	MSBTEMP
OFCF AD 16 18	LDA	DIRTEMP	1056 DO 13		BNE	NOTRIGHT
0FD2 D0 16	BNE	MOVDOWN2	1058 BD 00 D0		LDA	SPRITEX,X
;			105B C9 58		CMP	#\$58 NOTBIOUT
; move up	CLC		105D 90 00 105E CE 12 19		DEC	NOTRIGHT MSBTEMP
0FD4 10 0FD5 AD D7 17	I DA	CXVIO	1057 CE 13 16		SEC	IVIODICIVIF
0FD8 6D 10 18	ADC	PROD	1063 BD 00 D0		LDA	SPRITEX,X
0FDB 8D D7 17	STA	CXVLO	1066 E9 58		SBC	#\$58
OFDE AD C7 17	LDA	CXVHI	1068 9D 00 D0		STA	SPRITEX,X
0FE1 6D 11 18	ADC	PROD+1		NOTRICUIT		
0FE4 8D C7 17	SIA	CXVHI	106B AD 13 18	NOTRIGHT	LDA	MSBTEMP
DEET AC ED DE	IMD	LIDUATION	100E DU UC		I DA	SETMSB CLRMASK,X
:	JIVII	UI DAII US	1073 2D 10 D0		AND	MSB
: move down			1076 8D 10 D0		STA	MSB
OFEA MOVDO	WN2 =	*	1079 4C 85 10		JMP	YMOVE
0FEA 38	SEC		1.22 22 22 22			
OFEB AD D7 17	LDA	CXVLO	107C BD B5 17	SETMSB	LDA	SETMASK,X
0FEE EU IU IO	SBC	CANTO	10/1 00 10 00		CTA	MSB MSB
0FF4 AD C7 17	IDA	CXVLU			SIA	IVIOD
0FF7 ED 11 18	SBC	PROD+1	: initialize fact	ors		
OFFA 8D C7 17	STA	CXVHI	1085 BD DB 17	YMOVE	LDA	VELOCE,X
;			1088 8D 14 18		STA	MULTEMP
. *************		************	108B BD C6 17		LDA	YVHI,X
IIDdat			מו צו עמ שמטו		OTA	
. ************	*******	ons "	1001 20 47 11		STA	X1 MULTIPLY
. *************************************	*******	ONS "	1091 20 A7 11		STA JSR	X1 Multiply
OFFD UPDATE	os =	CXVLO PROD CXVLO CXVHI PROD+1 CXVHI	1091 20 A7 11 ; ; update y pos	sition	STA JSR	X1 MULTIPLY
OFFD UPDATE	OS =	ons ************************************	1091 20 A7 11 ; ; update y por 1094 18	sition	STA JSR CLC	
OFFD UPDATE	os =	* #0	1091 20 A7 11 ; ; update y por 1094 18 1095 BD EC 17	sition	STA JSR CLC LDA	YLO,X
OFFD UPDATE	os = LDX	* #0	1091 20 A7 11 ; update y pos 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17	sition	STA JSR CLC LDA ADC STA	YLO,X PROD
OFFD UPDATE OFFD A2 00 initialize factors OFFF BD DB 17 LIXMOV	OS = LDX	#0 VELOCE X	1091 20 A7 11 ; update y pos 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 109E BD 01 D0	sition	STA JSR CLC LDA ADC STA LDA	YLO,X PROD YLO,X
OFFD UPDATE OFFD A2 00 initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	POS = LDX LDA STA	#0  VELOCE,X MULTEMP	1091 20 A7 11 : :	sition	STA JSR CLC LDA ADC STA LDA ADC	YLO,X PROD YLO,X SPRITEY,X PROD+1
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	1091 20 A7 11 :	sition	STA JSR CLC LDA ADC STA LDA ADC CMP	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	1091 20 A7 11 : update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 109E BD 01 D0 10A1 6D 11 B 10A4 C9 1D 10A6 B0 02	sition	STA JSR CLC LDA ADC STA LDA ADC CMP BCS	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	1091 20 A7 11 :	YOK1	STA JSR CLC LDA ADC STA LDA ADC CMP BCS LDA CMP	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	1091 20 A7 11 :	YOK1	STA JSR CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 1098 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 109B 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 109B 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 109B 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 109B 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD UPDATE  OFFD A2 00   Initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 109B 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA
OFFD A2 00  initialize factors OFFF BD DB 17 UXMOV 1002 8D 14 18 1005 BD C5 17 1008 8D 12 18 1008 20 A7 11 update x position 100E A9 00 1010 8D 13 18 1013 BD B5 17 1016 2D 10 D0 1019 F0 03 1018 BE 13 18 101E 18 101F BD EB 17 1022 6D 10 18 1025 9D EB 17 1028 BD 00 D0 1028 BD 10 18 1025 9D EB 17 1028 BD 00 D0 1028 BD 10 18 1025 9D 10 18 1025 9D 10 18 1025 9D 10 18 1025 9D 10 18 1026 9D 10 18 1027 1028 BD 17 1028 BD 00 D0 1031 90 03 1033 EE 13 18 1036 2C 11 18 1039 10 03 1038 CE 13 18	LDX LDA STA	#0 VELOCE,X MULTEMP	; — update y por 1094 18 1095 BD EC 17 1098 6D 10 18 109B 9D EC 17 1041 6D 11 18 1044 C9 1D 1046 B0 02 1048 A9 1D 1048 C9 FA 1046 90 02 1046 A9 FA	YOK1	CLC LDA ADC STA LDA ADC CMP BCS LDA CMP BCC LDA	YLO,X PROD YLO,X SPRITEY,X PROD+1 #\$1D YOK1 #\$1D #\$FA

10CA 10 FA :		BPL	INCLUP LNCHTIME MFINS LNCHTIME	1158 C9 23 115A 90 11		CMP BCC	#35 ECHK2
10CC AD 0E 18	MFIN4	LDA	LNCHTIME	115C A9 04		LDA	
10CF 30 03		BMI	MFIN5	115E 8D 15 18		STA	SPRITMP ECHK2
;		1110	LITOTTTIVIL	;		UIVII	COLINE
; change sprit	e shapes	LDA	CVVIII	1164 C9 E0	ECHK1	CMP	#224
1004 AD C7 17	IVICIINO	BNF	MN71	1168 A9 06		I DA	ECHK2 #6
10D9 AD C8 17		LDA	CYVHI	116A 8D 15 18		STA	SPRITMP
10DC D0 08		BNE	MNZ1	;	ECHIVO	LDA	PYVHI
10F0 8D F9 07		STA	#arr 2041	1170 30 10	EURINZ	BMI	ECHK3
10E3 4C 3C 11		JMP	MFIN6	1172 C9 20		CMP	#32
1056 40 00	14N74	LDA	ш0	1174 90 19		BCC	ECHK4
10E6 A9 00	IVIINZ	STA	#U SPRITMP	1170 10 1177 A9 08		IDA	#8
10EB AD C7 17		LDA	CXVHI	1179 6D 15 18		ADC	SPRITMP
10EE 30 0C		BMI	DCHK1	117C 8D 15 18		STA	SPRITMP
10F0 C9 20 10F2 90 11		RCC	#32 DCHK2	117F 4C 8F 11		JMP	ECHK4
10F4 A9 04		LDA	#4	1182 C9 E0	ECHK3	CMP	#224
10F6 8D 15 18		STA	SPRITMP	1184 B0 09		BCS	ECHK4
1019 40 05 11		JMP	DUHKZ	1180 18 1187 A9 N9		LDA	#9
10FC C9 E0	DCHK1	CMP	#224	1189 6D 15 18		ADC	SPRITMP
10FE B0 05		BCS	DCHK2	118C 8D 15 18		STA	SPRITMP
1100 A9 05 1102 8D 15 18		STA	#6 SPRITMP	118F AD 15 18	FCHK4	I DA	SPRITMP
;		<b></b> .	0.7	1192 C9 04	2011111	CMP	#4
1105 AD C8 17	DCHK2	LDA	CYVHI	1194 D0 02		BNE	ECHK5
1106 30 10 110A C9 20		CMP	#32	1196 A9 UA 1198 C9 06	FCHK5	CMP	#1U #6
110C 90 19		BCC	DCHK4	119A DO 02	201110	BNE	ECHK6
110E 18		CLC	ш0	119C A9 0B	FOLIKE	LDA	#11
1111 6D 15 18		ADC	#0 SPRITMP	119E 16	EUNKO	ADC	#230
1114 8D 15 18		STA	SPRITMP	11A1 8D F8 07		STA	2040
1117 4C 27 11		JMP	DCHK4	;	MEINI7	IMD	SEA31
111A C9 E0	DCHK3	CMP	#224	;	MILIMA	JIVIF	ΦEA01
111C BO 09		BCS	DCHK4	*************	******	******	**********
111E 18 111F A9 09		LDA	#0	; 8 x 8 bit multip	y ******	*****	******
1121 6D 15 18		ADC	SPRITMP	;			
1124 8D 15 18		STA	SPRITMP	11A7	MULTIPLY	==	* V4
1127 AD 15 18	DCHK4	LDA	SPRITMP	11AA 8D 10 18		STA	PROD
112A C9 04		CMP	#4	11AD 30 03		BMI	XNEG
112C DO 02		RNE	DCHK5 #10	11AF A9 00		LDA	#0
1130 C9 06	DCHK5	CMP	#6	11B1 2C		.BYTE	\$2C
1132 D0 02		BNE	DCHK6	11B2 A9 FF	XNEG	LDA	#\$FF
1134 A9 UB 1136 18	DCHKE	CLC	#11	11B4 8D 11 18		STA	PROD+1
1137 69 EE	DOING	ADC	#238	; shift out lead	ding zeroes		
1139 8D F9 07		STA	2041	11B7 A0 08	1440LUD	LDY	#\$8
113C AD C5 17	MFIN6	LDA	PXVHI	11BA OF 14 18	MAGLUP	DEY ASI	MULTEMP
113F D0 0D		BNE	MNZ2	11BD 90 FA		BCC	MAGLUP
1141 AD C6 17		LDA	PYVHI	11BF C0 00		CPY	#\$0
1146 A9 FF		LDA	#\$FF	1101 FU 25		BEU	NOMULT
1148 8D F8 07		STA	2040	; double produ	ıct		
114B 4C A4 11		JMP	LNCHTIME MFIN5 LNCHTIME  CXVHI MNZ1 CYVHI MNZ1 #\$FF 2041 MFIN6 #0 SPRITMP CXVHI DCHK1 #32 DCHK2 #4 SPRITMP DCHK2 #4 SPRITMP CYVHI DCHK3 #32 DCHK4 #8 SPRITMP CYVHI DCHK4 #8 SPRITMP SPRITMP CYVHI DCHK4 #9 SPRITMP CYVHI DCHK5 #10 #10 #10 #11 #228 2041 PXVHI MNZ2 #\$FF 2040 MFIN7 #0 SPRITMP SPRITMP #0 SPRITMP #0 SPRITMP #10 #0 #0 #0 #0 #10 #10 #0 #10 #10 #0 #10 #1	11C3 0E 10 18	MULLUP	ASL	PROD 1.1
114E A9 00	MNZ2	LDA	#0	: 1100 ZE 11 18		KUL	PROD+1
1150 8D 15 18		STA	SPRITMP	add factors	o products		
1153 AD C5 17 1156 30 OC		LDA BMI	PXVHI FCHK1	11C9 0E 14 18		ASL BCC	MULTEMP NOADD

11CE 18 11CF AD 10 18 11D2 6D 12 18 11D5 8D 10 18 11D8 90 03 11DA EE 11 18 11DD AD 12 18 11ED 10 03 11E2 CE 11 18 11E5	IMA IMB	CLC LDA ADC STA BCC INC LDA BPL DEC	•	1250 A9 FE 1252 8D 1C D0	ZN2	INC INC BNE INC LDA CMP BNE LDA STA	DEST+1 SOURCE ZN2 SOURCE+1 DEST #\$40 SPRILUP #\$FE \$D01C
11E5 88 11E6 D0 DB 11E8 60	NOMULT initialize	RTS	*************	redefine char 1255 A5 01 1257 29 FB 1259 85 01 125B A0 00 125D B9 00 DC 1260 99 00 30 1263 B9 00 DD	ROMLUP	LDA AND STA LDY LDA STA	\$1 #0 \$DC00,Y \$3000,Y
11E9 20 B5 FF	DRAW	JSR		1266 99 00 31 1269 C8 126A D0 F1 126C A5 01 126E 09 04		STA INY BNE LDA ORA	\$DD00,Y \$3100,Y ROMLUP \$1 #\$4
; set multicolo 11EC 78 11ED AD 16 D0 11F0 09 10 11F2 8D 16 D0 11F5 A9 1D 11F7 8D 18 D0 11FA A9 07 11FC 8D 23 D0 1201 8D 25 D0 1204 A9 07 1206 8D 26 D0 1209 A9 0F 1208 8D 27 D0		STA LDA STA	\$D016 #\$10 \$D016 #\$10 \$D018 #\$7 \$D023 #0 \$D025 #7 \$D026 #\$F \$D027	1270 85 01 ; 1272 A0 00 1274 B9 11 13 1277 90 03 1278 C0 20 127B C0 20 127D D0 F5 ; 127F A0 00 1281 98 1282 99 00 33 1285 C8 1286 C0 08 1288 D0 F8	BLNKLUP	CPY BNE LDY	\$1 #0 CHARS,Y \$3200,Y #\$20 CHARLUP #0 \$3300,Y #\$8 BLNKLUP
	<b>;</b>	LDA STA LDA STA LDA STA LDA STA LDY	# <sprites #="" source="">SPRITES SOURCE+1 #\$80 DEST #\$38 DEST+1 #0</sprites>	; clear text scr 128A A9 04 128C 85 FF 128E A9 D8 1290 85 FD 1292 A9 00 1294 85 FE 1296 85 FC 1298 A8	reen	LDA STA LDA STA LDA STA STA TAY	#\$4 SCRPTR+1 #\$D8 COLPTR+1 #0 SCRPTR COLPTR
1220 B1 FE 1222 D0 18 1224 E6 FE 1226 D0 02 1228 E6 FF 122A B1 FE 122C AA 122D A9 00 122F 91 FC 1231 E6 FC	SPRILUP	LDA BNE INC BNE INC LDA TAX LDA STA INC	(SOURCE),Y NOTZEROS SOURCE ZL1 SOURCE+1 (SOURCE),Y #0 (DEST),Y DEST	1299 A9 60 129B 91 FE 129D A9 08 129F 91 FC 12A1 C8 12A2 D0 F5 12A4 E6 FF 12A6 E6 FD 12A8 A5 FF 12AA C9 07 12AC D0 EB	SCRLUP	LDA STA LDA STA INY BNE INC INC LDA CMP BNE	#\$60 (SCRPTR),Y #8 (COLPTR),Y SCRLUP SCRPTR+1 COLPTR+1 SCRPTR+1 #7 SCRLUP
	ZL3	INC DEX BNE BEQ STA	ZL3 DEST+1  ZEROLOOP ZNEXT  (DEST),Y DEST ZNEXT	; 12AE A9 60 12BO 99 00 07 12B3 A9 08 12B5 99 00 DB 12B8 C8 12B9 C0 C0 12BB D0 F1	SCRLUPA	LDA STA LDA STA INY CPY BNE	#\$60 \$700,Y #8 \$DB00,Y #\$C0 SCRLUPA
123E E6 FC 1240 D0 02		inc Bne	ZNEXT	1288 DU F1		DINE	SURLUPA

12BD 20 52 13		JSR	DRWSCREEN #0 #\$FE 2042,Y #2 \$D029,Y #6 FBLUP3 #\$FF 2040 2041 #0 TITLE,Y #\$40 TITL #\$40 TITL #\$40 TITL #\$1 #51 TITLUP ENDIT #\$21 TITLUP ENDIT #\$21 TITLUP ENDIT #\$28 ENDIT+2  96,66,64,96 96,67,65,96  0,0,0,0,0,3,3,3,3,3,3,3,3,3,8,58,528,528 ENDIT+2  96,66,04,96 96,67,65,96  0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	· *********	*****	*****	******
		. 51/		,	CONCIO		
12CU AU UU 12C2 A9 FF	FRI LIP3	LDY	#U #\$FF	136B A9 UU 136D 8D 27 18	CONFIG	STA	#U DIFF
12C4 99 FA 07	1 DLOI U	STA	2042,Y	;		0	51
12C7 A9 02		LDA	#2	1370 AO 6E		LDY	#END1 — MSG1
12C9 99 29 D0		STA	\$D029,Y	1372 A2 1E		LDX	# <msg1< td=""></msg1<>
1200 08		CDV	ще	1374 A9 14		LDA	#>MSG1
12CF D0 F1		BNE	FBLUP3	1370 20 00 14		Jon	WILOOMUL
12D1 A9 FF		LDA	#\$FF	1379 AD 27 18	DIFFLUP	LDA	DIFF
12D3 8D F8 07		STA	2040	137C 0A		ASL	
12D6 8D F9 07		STA	2041	137D AA		IAX	¢AE7 V
12D9 AO OO		I DY	#0	1381 49 80		EOR	#\$80
12DB B9 31 13	TITLUP	LDA	TITLE,Y	1383 9D E7 04		STA	\$4E7,X
12DE C9 40		CMP	#\$40	1386 20 C8 14		JSR <sub>.</sub>	JOY
12E0 90 03		BCC	TTL	1389 FO 1E		BEQ	DUN1
12E2 38 12E3 FQ 40		SEC	#\$40	1385 BD E7 U4		FOR	ቅ4Ε/,አ #\$ጸበ
12E5 99 C0 07	TTL	STA	\$7C0.Y	1390 9D E7 04		STA	\$4E7,X
12E8 A9 03		LDA	#3	1393 98		TYA	
12EA 99 CO DB		STA	\$DBC0,Y	1394 18		CLC	DIFF
12ED U8		INY	MUUTI	1395 6D 27 18		CMD	UIFF #&EE
12F1 10 06		BPL	MTL	139A DO 02		BNE	0K1
12F3 CO 18		CPY	#\$18	139C A9 00		LDA	#\$0
12F5 D0 E4		BNE	TITLUP	139E C9 03	OK1	CMP	#3
12F7 F0 04	MTI	BEQ	ENDII	13AU DU U2		RNF	UKA #1
12FB D0 DF	WITE	RNF	TITI LIP	13A4 8D 27 18	OKA	STA	DIFF
;		DITE	III LOI	13A7 D0 D0	0.01	BNE	DIFFLUP
12FD A9 03	ENDIT	LDA	#3	;			
12FF 99 C0 DB		STA	\$DBC0,Y	13A9 AD 27 18	DUN1	LDA	DIFF
1302 C6 1303 C0 28		CPY	#\$28	13AC 16 13AD 69 04		ADC	#4
1305 D0 F8		BNE	ENDIT+2	13AF 8D DB 17		STA	PSPEED
				13B2 69 02		ADC	#2
1307 58		CLI		13B4 8D DD 17		STA	CSPEED #2
1300 00		піо		13B9 8D DA 17		STA	CRADILIS
1309 60 42 40	MSTRING1	.BYTE	96,66,64,96	13BC 69 01		ADC	#1
130D 60 43 41	MSTRING2	.BYTE	96,67,65,96	13BE 8D D9 17		STA	PRADIUS
;	CUADO	DVTE	0.000000000000	13C1 A9 02		LDA	#2
1311 00 00 00 1319 03 03 08	UNANS	RYTE	U,U,U,U,U,&3,&3,&3 \$3 \$3 \$R \$R \$R \$2R	13C6 D0 03		RNF	NOINC
1010 00 00 00			.\$28.\$28	13C8 EE D9 17		INC	PRADIUS
1321 00 00 00		.BYTE	0,0,0,0,0,\$C0,\$C0,\$	;			
1220 00 00 00		DVTC	CO	13CB A9 FF	NOINC	LDA	#\$FF
1329 00 00 20		.BTIE	\$CU,\$CU,\$EU,\$EU,\$E 8.\$F8.\$28.\$28	1300 80 28 18		5 IA	MULII #FND2 — MSG2
;			0,420,420,420	13D2 A2 8C		LDX	# <msg2< td=""></msg2<>
1331 50 4C 41	TITLE	.ASC	"player1: ships: play	13D4 A9 14		LDA	#>MSG2
			er2:"	13D6 20 BB 14	AU DALLID	JSR	MESSAGE
1352 AO OO	DRWSCREEN	I DY	#0	13D9 AD 28 18	NUMLUP	LDA ASI	MULII
1354 A2 04	SCRNLUP1	LDX	#4	13DD AA		TAX	
1356 BD 08 13	SCRNLUP	LDA	MSTRING1-1,X	13DE E8		INX	
1359 99 70 07		STA	\$770,Y	13DF E8		INX	ecoc v
135F 99 98 07		STA	\$798.Y	13F3 49 80		FOR	Φ32U,⊼ #\$80
1362 C8		INY	÷	13E5 9D 2C 05		STA	\$52C,X
1363 CA		DEX		13E8 20 C8 14		JSR	JOY
1364 D0 F0		BNE	SURNLUP	13EB F0 23		BEQ	DUN2
1368 DO FA		RNF	#\$20 SCRNI UP1	13ED 18		AUC.	MUUTI
136A 60		RTS	COUNTED!	13F1 BD 2C 05		LDA	\$52C.X
1				13F4 49 80		EOR	#\$80
,	****************	difficult	*********	13F6 9D 2C 05		STA	\$52C,X
•	comgute	uniculty	-	•			

13F9 98 13FA 18 13FB 6D 28 18 13FE C9 FE 1400 D0 02 1402 A9 FF 1404 C9 01 1406 D0 02 1408 A9 00 1408 BD 28 18	OK2	TYA CLC ADC CMP BNE LDA CMP BNE LDA STA	MULTI #\$FE OK2 #\$FF #1 OKB #0 MULTI	14EE 2D 01 DC 14F1 29 08 14F3 D0 03 14F5 A0 01 14F7 60 14F8 AD 00 DC 14FB 2D 01 DC 14FE 29 10 1500 D0 DC 1502 A0 00	J2	AND BNE LDY RTS LDA AND AND BNE LDY	JOY1 #8 J2 #1 JOY2 JOY1 #\$10 J0 #0
140D 4C D9 13 ; 1410 A0 15 1412 A2 A5	DUN2	JMP LDY LDX	WEND3 — MSG3 # <msg3< td=""><td>1504 60 1505</td><td>SPRITES</td><td>RTS =</td><td>*</td></msg3<>	1504 60 1505	SPRITES	RTS =	*
1414 A9 14 1416 20 BB 14 1419 20 C8 14 141C D0 FB 141E 60	ZZZLLUP	LDA JSR JSR BNE RTS	#>MSG3 MESSAGE JOY ZZZLUP	; plane1 1505 00 08 1507 C0 00 01 1512 3F 80 00		.BYTE .BYTE	0,8 192,0,1,27,192,0,1,6 3,192,0,1 63,128,0,1,62,0,2,60
141E 00 ; 141F	MSG1	nio =	*-1	151C 3C 00 02		.BYTE	,0,2 60,0,2,60,0,2,62
141F C5 20 C9	ou	.ASC .BYTE	"E I N :trepxe ,etaide mretni ,ecivon {DOWN}" \$D	1523 00 02 3F 152B 3F 00 02 1534 3C 00 02 153B 00 02 30		.BYTE .BYTE .BYTE .BYTE	0,2,63,0,2,63,0,2 63,0,2,62,0,2,62,0,2 60,0,2,60,0,2,56 0,2,48,0,9
1445 2D 54 43		.ASC	"-tceles of nottub dn a kcitsyoj esu {DOWN}"	; plane2 1540 OC 00 02 1544 00 02 3C		.BYTE .BYTE	12,0,2,28 0,2,60,0,2,60,0,2
1469 OD 146A 35 38 39		.BYTE .ASC	\$D "5891 letupmo <u>C</u> ,RE KEES TAEH [<8 >] {DOWN} {CLR}	154C 7C 00 02 1555 FC 00 02 155C 00 02 3C		.BYTE .BYTE .BYTE	124,0,2,124,0,2,252, 0,2 252,0,2,252,0,2,124 0,2,60,0,2,60,0,2
148C 0E 148D 148D	END1 MSG2	.BYTE	\$E *-1 *-1	1564 3C 00 02 156E 03 FC 00		.BYTE	60,0,2,124,0,1,1,252 ,0,1 3,252,0,1,3,216,0,1, 3,0,27
148D 32 20 31 14A5 0D 14A6	END2	.ASC .BYTE	"2 1 :sreyalp fo rebm un {DOWN}" \$D *-1	; plane3 1579 E0 00 02 157F 7E 03 E0		.BYTE .BYTE	224,0,2,248,0,2 126,3,224,063,255,2 52,127,255
14A6 14A6 4E 49 47	MSG3	.ASC	*-1 "nigeb ot erif sser p {DOWN}"	1587 FF 3F FF 158D FF FF FC		.BYTE .BYTE	255,63,255,255,0,55 255,255,252,255,25 5
14BA OD 14BB 14BB 86 FE 14BD 85 FF	END3 MESSAGE	.BYTE == STX STA	\$D *-1 \$FE \$FF	1592 FE 3F FF 159B 1F 00 02 ; plane5		.BYTE	254,63,255,252,7,19 2,126,0,2 31,0,2,7,0,22
14BF B1 FE 14C1 20 D2 FF 14C4 88	ZMSGLUP	LDA JSR DEY	(\$FE),Y \$FFD2	15A1 03 00 02 15A7 0F 00 02 15AE 00 02 3F		.BYTE .BYTE .BYTE	3,0,2,7,0,2 15,0,2,15,0,2,63 0,2,63,128,0,1,15,22
14C5 D0 F8 14C7 60		BNE RTS	ZMSGLUP	15B8 03 F8 00		.BYTE	4,0,1 3,248,0,2,255,128,0, 1,63
14C8 AD 00 DC 14CB 2D 01 DC	JOY	LDA AND	J0Y2 J0Y1	15C1 E0 00 01		.BYTE	224,0,1,15,224,0,1,3 ,248,0,2
14CE 29 1C 14D0 C9 1C 14D2 D0 F4		and CMP BNE	#\$1C #\$1C JOY	15CC F8 00 02 15D3 00 20 ; plane6		.BYTE .BYTE	248,0,2,60,0,2,12 0,32
14D4 A9 00 14D6 85 A2		LDA STA	#0 \$A2	15D5 03 FC 00		.BYTE	3,252,0,1,15,252,0,1 ,31,240
14D8 A9 1C 14DA C5 A2 14DC D0 FC	JOYWAIT	LDA CMP BNE	#\$1C \$A2 Joywait	15DF 00 01 1F 15E9 00 01 7F		.BYTE	0,1,31,192,224,127, 0,1,249,252 0,1,127,240,0,1,127,
14DE AD 00 DC 14E1 2D 01 DC	J0	LDA AND	J0Y2 J0Y1	15F4 00 02 3C		.BYTE	192,0,1,63 0,2,60,0,2,16,0,35
14E4 29 04 14E6 DO 03 14E8 AO FF		and Bne Ldy	#4 J1 #\$FF	; plane7 15FC 08 00 02 1603 00 01 03		.BYTE	8,0,2,60,0,2,252 0,1,3,254,0,1,15,254
14EA 60 14EB AD 00 DC	J1	rts LDA	JOY2	160E 9F 00 01		.BYTE	,0,1,63 159,0,1,254,7,3,248, 0,1,15

1618 F8 00 01	.BYTE	248,0,1,63,240,0,1,6 3,192,0,32	175D A0 00 02		.BYTE	160,0,2,32,0,26
; plane8 1623 30 00 02	.BYTE	48,0,2,60,0,2,31,0,2	1763 08 80 1765 00 01 0A		.BYTE .BYTE	8,128 0,1,10,168,0,1,43,22
162C 1F C0 00	.BYTE	31,192,0,1,7,240,0,1 ,7,252	1770 E0 00 01		.BYTE	4,0,1,11 224,0,1,11,232,0,1,4
1636 00 01 01		0,1,1,255,0,2,31,192 ,0,1	177B 02 20 00		.BYTE	2,160,0,1 2,32,0,51
1640 07 F0 00	.BYTE	7,240,0,1,1,252,0,2, 252	; blast 177F 88 00 01		.BYTE	136,0,1,2
1649 00 02 F0 1651 E0 00 02	.BYTE .BYTE	0,2,240,0,2,240,0,2 224,0,2,192,0,19	1783 AA 00 01		.BYTE	170,0,1,2,174,0,1,2, 238,128
; chaser1 1657 28	.BYTE	40	178D 0A FF A0		.BYTE	10,255,160,10,255,2 24,11,254
1658 28 00 01	.BYTE	40,0,1,40,40,0,1,41, 104,0,1	1795 A8 OB FF		.BYTE	168,11,255,224,42,2 55,168,43
1663 29 68 00	.BYTE	41,104,0,1,9,96,0,1, 9,96	179D FF E0 2B		.BYTE	
166D 00 01 01	.BYTE	0,1,1,64,0,1,1,64,0,1 ,1	17A5 2F FF A0		.BYTE	47,255,160,42,255,2 24,47,255
1678 40 00 01	.BYTE	64,0,1,1,64,0,1,1,64, 0,32	17AD F8 2B BB		.BYTE	248,43,187,224,10,1 70,168,255
; chaser2 1683 01 40 00	.BYTE	1,64,0,1,1,64,0,1,1,6	; bit manipulati	ion masks		
168F 01 40 00	BYTE	4,0,1 1,64,0,1,1,64,0,1,9,9	17B5 17B5	SETMASK CLRMASK	=	* *+1
1699 00 01 09	.BYTE	6 0,1,9,96,0,1,41,104,	17B5 01 FE 02 17B9 04 FB 08		.BYTE .BYTE	\$1,\$FE,\$2,\$FD \$4,\$FB,\$8,\$F7
16A4 68 00 01	.BYTE	0,1,41 104,0,1,40,40,0,1,40 ,40,0,35	17BD 10 EF 20 17C1 40 BF 80		.BYTE .BYTE	\$10,\$EF,\$20,\$DF \$40,\$BF,\$80,\$7F
; chaser3		,40,0,33	: ************	*********	*****	*****
16AF AA 00 02 16B6 15 55 00	.BYTE .BYTE	170,0,2,170,128,0,1 21,85,0,1,21,85,0,1,		variab	les	**********
1020 10 00 00	.0116		1			
16C0 00 01 AA		21,85 0,1,170,128,0,1,170,	; ;object velocities 17C5	XVHI	=	•
16C0 00 01 AA ; chaser4	.ВҮТЕ	21,85 0,1,170,128,0,1,170, 0,46	17Ć5 17C5	XVHI YVHI	=	· *+1.
16CO 00 01 AA		21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1,	17C5 17C5 17D5 17D5	YVHI PXVHI	*	*+16 XVHI
16CO 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00	.BYTE .BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84	17Ć5 17C5 17D5 17D5 17D5 00	YVHI PXVHI PXVLO	=	* + 16 XVHI 0
16CO 00 01 AA ; chaser4 16C9 AA 00 01 16DO 55 54 00 16DA 00 01 02	.BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84	17Ć5 17C5 17D5 17D5 17D5 17D5 00 17D6 17D6 00	YVHI PXVHI PXVLO PYVHI PYVLO	BYTE BYTE	*+16 XVHI 0 YVHI 0
16CO 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5	.BYTE .BYTE .BYTE	21,85 0.1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0,	1765 1705 1705 1705 1705 00 1706 1706 1706 1707	YVHI PXVHI PXVLO PYVHI PYVLO CXVHI	BYTE BYTE	*+16 XVHI 0 YVHI 0 XVHI+2
16CO 00 01 AA ; chaser4 16C9 AA 00 01 16DO 55 54 00 16DA 00 01 02	.BYTE .BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2	1765 1705 1705 1705 1705 00 1706 1706 1706 1707	YVHI PXVHI PXVLO PYVHI PYVLO CXVHI	BYTE BYTE	*+16 XVHI 0 YVHI 0 XVHI+2
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00	.BYTE .BYTE .BYTE .BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1	17C5 17C5 17D5 17D5 17D5 00 17D6 00 17D6 00 17D7 17D7 00	YVHI PXVHI PXVLO PYVHI PYVLO CXVHI CXVLO CYVHI	BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 XVHI+2
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29	.BYTE .BYTE .BYTE .BYTE .BYTE .BYTE .BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1 1,65,64 0,1,41,80,0,1,10,84, 0,2	17Ć5 17C5 17D5 17D5 17D5 00 17D6 00 17D6 00 17D7 00 17D8 17D8 00	YVHI PXVHI PXVLO PYVHI PYVLO CXVHI CXVLO CYVHI CYVLO	BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 XVHI+2 0 YVHI+2
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00	.BYTE .BYTE .BYTE .BYTE .BYTE .BYTE .BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1,165,64 0,1,41,80,0,1,10,84,	1765 1705 1705 1705 1705 00 1706 1706 00 1707 00 1708 1708 00 1709 00	YVHI  PXVHI  PXVLO  PYVHI  PYVLO  CXVHI  CXVLO  CYVHI  CYVLO  PRADIUS	.BYTE .BYTE .BYTE .BYTE	*+16 XVHI 0 YVHI 0 XVHI+2 0 YVHI+2
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 01 16F3 05 00 02	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1 1,65,64 0,1,41,80,0,1,10,84, 0,2 21,0,2,5,0,39 5,0,2,21,0,1	1765 1705 1705 1705 1705 1706 1706 1706 1707 00 1708 1708 00 1709 1709 00 1700 1700 1700 1700 170	YVHI  PXVHI PXVLO PYVHI PYVLO CXVHI CXVLO CYVHI CYVLO PRADIUS CRADIUS	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 XVHI+2 0 YVHI+2 0
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1 1,65,64 0,1,41,80,0,1,10,84, 0,2 21,0,2,50,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1,	1765 1705 1705 1705 1705 1705 00 1706 00 1707 00 1707 1708 00 1708 00 1709 00 1704 00 1704 00 1705 1708 00 1709 1709 00 1700 1700 1700 1700 170	YVHI  PXVHI  PXVLO  PYVHI  PYVLO  CXVHI  CXVLO  CYVHI  CYVLO  PRADIUS	BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 XVHI+2 0 YVHI+2 0
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 01 16F3 05 00 02	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1 165,64 0,1,41,80,0,1,10,84, 0,2 21,0,2,5,0,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1, 165,64 0,1,21,128,0,1,6,128	17Cs 17C5 17D5 17D5 17D5 17D6 17D6 17D6 00 17D7 17D7 17D7 00 17D8 00 17D9 00 17D9 00 17DA 00 17DA 17DB 17DB 17DB	YVHI  PXVHI PXVLO PYVHI PYVLO CXVHI CXVLO CYVHI CYVLO PRADIUS CRADIUS	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 XVHI+2 0 YVHI+2 0
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6 1703 05 00 02 1709 0A 54 00 1713 00 01 15	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0.1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0.1,2,170,0,2,170,0, 44 8.0,2,10,0,2 6,128,0,1,21,128,0,1 165,64 0.1,41,80,0,1,10,84, 0,2 21,0,2,5,0,39 5.0,2,21,0,1 10,84,0,1,41,80,0,1, 165,64	1765 1705 1705 1705 1705 1705 00 1706 1706 00 1707 1707 1708 00 1708 00 1709 00 1704 00 1704 00 1705 1708 1708 1709 1709 1709 1709 1709 1709 1709 1709	YVHI  PXVHI PXVLO PYVHI PYVLO CXVHI CXVLO CYVHI CYVLO PRADIUS CRADIUS  VELOCE PSPEED	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 YVHI+2 0 YVHI+2 0
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6 1703 05 00 02 1709 0A 54 00 1713 00 01 15 171E 00 02 08 ; chaser7	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1,165,64 0,1,41,80,0,1,10,84, 0,2 21,0,2,5,0,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1,165,64 0,1,21,128,0,1,6,128 0,1,10 0,2,80,40	17CS 17CS 17DS 17DS 17DS 17DS 17D6 00 17D6 17D6 00 17D8 17D8 00 17D9 17D9 00 17DA 17DB 17DB 17DB 17DB 17DB 17DB 17DB 17DB	YVHI  PXVHI PXVLO PYVHI PYVLO PYVHI CXVLO CYVHI CXVLO CYVHI CYVLO PRADIUS CRADIUS  VELOCE PSPEED CSPEED	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 YVHI+2 0 YVHI+2 0
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6 1703 05 00 02 1709 0A 54 00 1713 00 01 15	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1 1,65,64 0,1,41,80,0,1,10,84, 0,2 21,0,2,5,0,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1, 165,64 0,1,21,128,0,1,6,128 0,1,10,10,10,10,10,10,10,10,10,10,10,10,	1765 1705 1705 1705 1705 1705 00 1706 00 1707 1707 1708 00 1708 1708 00 1709 00 170A 00 170A 00 170B 17EB 17EB 17EB 17EB 17EB 17EB 17EB 17E	YVHI  PXVHI PXVLO PYVHI PYVLO CXVHI CXVLO CYVHI CYVLO PRADIUS CRADIUS  VELOCE PSPEED	BYTE BYTE BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 YVHI+2 0 YVHI+2 0 0 0 **+16 VELOCE VELOCE+2
16CO 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6 1703 05 00 02 1709 0A 54 00 1713 00 01 15 171E 00 02 08 ; chaser7 1723 20 00 02	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1 1,65,64 0,1,41,80,0,1,10,84, 0,2 21,0,2,5,0,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1, 165,64 0,1,21,128,0,1,6,128 0,1,10 0,2,80,40 32,0,2,160,0,1 2,140,12,1284,0,1,1, 90 0,1,5,104,0,1,21,160	1765 1705 1705 1705 1705 1705 00 1706 00 1707 00 1708 1708 00 1709 00 17DA 00 17DB 17EB 17EB 17EB 17EB 17EB 17EB 17EB 17E	YVHI  PXVHI PXVLO PYVHI PYVLO CYVHI CXVLO CYVHI CYVLO PRADIUS CRADIUS  VELOCE PSPEED CSPEED	BYTE BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 YVHI+2 0 YVHI+2 0 0 0 *+16 VELOCE VELOCE+2
16CO 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6 1703 05 00 02 1709 0A 54 00 1713 00 01 15 171E 00 02 08 ; chaser7 1723 20 00 02 1729 02 90 00	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0,1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0, 44 8,0,2,10,0,2 6,128,0,1,21,128,0,1,165,64 0,1,41,80,0,1,10,84, 0,2 21,0,2,5,0,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1,165,64 0,1,10 0,2,80,40 32,0,2,160,0,1 2,144,0,1,2,84,0,1,1,90	17C5 17C5 17D5 17D5 17D5 17D5 17D5 17D6 17D6 00 17D7 17D7 17D7 00 17D8 17D8 00 17D9 00 17DA 00 17DB 17EB 17EB 17EB 17EB 17EB 17EB 17EB 17E	YVHI  PXVHI PXVLO PYVHI PYVLO CYVHI CXVLO CYVHI CYVLO PRADIUS CRADIUS  VELOCE PSPEED CSPEED	BYTE BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 YVHI+2 0 YVHI+2 0 0 0 *+16 VELOCE VELOCE+2
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6 1703 05 00 02 1709 0A 54 00 1718 00 01 15 171E 00 02 08 ; chaser7 1723 00 00 02 1729 02 90 00 1733 00 01 05 1738 00 01 05 1738 00 01 05 1738 00 00 25 : chaser8 1743 50 00 02	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0.1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0,44 8,0,2,10,0,2 6,128,0,1,21,128,0,1,165,64 0,1,41,80,0,1,10,84,0,2 21,0,2,5,0,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1,165,64 0,1,21,128,0,1,6,128,0,1,10,1,10 0,2,80,40 32,0,2,160,0,1 2,144,0,1,2,84,0,1,1,90 0,1,5,104,0,1,21,160 0,1,84 0,2,80,0,39 80,0,2,84,0,2	1765 1705 1705 1705 1705 1705 1705 00 1706 00 1707 1707 00 1708 1708 00 1709 00 170A 00 170B 17EB 17EB 17EB 17EB 17EB 17EB 17EB 17E	YVHI  PXVHI PXVLO PYVHI PXVLO CXVHI CXVLO CXVHI CYVLO PRADIUS CRADIUS  VELOCE PSPEED  XLO YLO SHOTCLOCK	BYTE BYTE BYTE BYTE BYTE  BYTE  """	*+16 XVHI 0 YVHI 0 YVHI+2 0 YVHI+2 0 0 0 *+16 VELOCE VELOCE+2 **+16 *+16
16CO 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6 1703 05 00 02 1709 0A 54 00 1713 00 01 15 171E 00 02 08 ; chaser7 1723 20 00 02 1729 02 90 00 1733 00 01 05 173E 00 02 50 ; chaser8	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0.1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0.1,2,170,0,2,170,0,44 8,0,2,10,0,2 6,128,0,1,21,128,0,1,165,64 0.1,41,80,0,1,10,84, 0,2 21,0,2,5,0,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1,165,64 0.1,21,128,0,1,6,128 0,1,10 0,2,80,0,40 32,0,2,160,0,1 2,144,0,1,2,84,0,1,1,90 0,1,5,104,0,1,21,160 0,1,84 0,2,160,0,1 0,1,5,104,0,1,21,160 0,1,84 0,2,80,0,39 80,0,2,84,0,2 21,160,0,1,5,104,0,1	17C5 17C5 17D5 17D5 17D5 17D5 17D5 17D6 00 17D6 17D6 17D8 17D8 17D8 17D9 00 17DA 00 17DA 00 17DB 17EB 17EB 17EB 17EB 17EB 17EB 17EB 17E	YVHI  PXVHI PXVLO PYVHI PYVLO CXVHI CXVLO CYVHI CYVLO CYVLO PRADIUS CRADIUS VELOCE PSPEED CSPEED XLO YLO SHOTCLOCK FIRE	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	*+16 XVHI 0 YVHI 0 YVHI+2 0 YVHI+2 0 0  *+16 VELOCE VELOCE+2  *+1 *+16  *+6 0
16C0 00 01 AA ; chaser4 16C9 AA 00 01 16D0 55 54 00 16DA 00 01 02 ; chaser5 16E3 08 00 02 16E9 06 80 00 16F3 00 01 29 16FD 15 00 02 ; chaser6 1703 05 00 02 1709 0A 54 00 1718 00 01 15 171E 00 02 08 ; chaser7 1723 00 00 02 1729 02 90 00 1733 00 01 05 1738 00 01 05 1738 00 01 05 1738 00 00 25 : chaser8 1743 50 00 02	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	21,85 0.1,170,128,0,1,170, 0,46 170,0,1,2,170,0,1 85,84,0,1,85,84,0,1, 85,84 0,1,2,170,0,2,170,0,44 8,0,2,10,0,2 6,128,0,1,21,128,0,1,165,64 0,1,41,80,0,1,10,84,0,2 21,0,2,5,0,39 5,0,2,21,0,1 10,84,0,1,41,80,0,1,165,64 0,1,21,128,0,1,6,128,0,1,10,1,10 0,2,80,40 32,0,2,160,0,1 2,144,0,1,2,84,0,1,1,90 0,1,5,104,0,1,21,160 0,1,84 0,2,80,0,39 80,0,2,84,0,2	17C5 17C5 17D5 17D5 17D5 17D5 17D5 17D6 00 17D6 17D6 17D8 17D8 17D8 17D9 00 17DA 00 17DA 00 17DB 17EB 17EB 17EB 17EB 17EB 17EB 17EB 17E	YVHI  PXVHI PXVLO PYVHI PYVLO CYVHI CXVLO CYVHI CYVLO PRADIUS CRADIUS  VELOCE PSPEED  XLO YLO SHOTCLOCK  FIRE LASTSHOT	BYTE BYTE BYTE BYTE BYTE  BYTE  """	*+16 XVHI 0 YVHI 0 YVHI+2 0 YVHI+2 0 0 0 *+16 VELOCE VELOCE+2 **+16 *+16

1803 00	INUSE	.BYTE	0
;launch variables 1804 180E 180E 00	BASCLOCK LNCHTIME	 * .BYTE	*+10 0
;multiply variables 180F 00 1810 00 1811 00 1812 00 1813 00 1814 00 1815 00	REGTEMP PROD X1 MSBTEMP MULTEMP SPRITMP	BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0 0 0
; chaser variables 1816 00 1817 00 1818 00 1819 00 181A 00 181B 00 181C 00	DIRTEMP VQUAD DQUAD DELTAX DELTAY XSCALE YSCALE	BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0 0 0
; game control 181D 00 181E 00 181F 00 182D 00 1821 00 1822 00 1823 00 1825 00 1826 00 1827 00 1826 00 1827 00 1828 00	MASKTEMP SHOTMASK OLDJIF PLAYNUM QUAN ZIPTIME ZIPFREQ RESP JTEMP DIFF MULTI	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	0 0 0 0 0 0 0 0

# Laser Beam Source Code

Source code by Kevin Mykytyn

0000		•=	\$C000	C000	LASER	_	\$CE00
C000	DIR	_	\$C000 6	C000 C000 C000 A9 04	LASEK	=	\$6500 1
C000	FIREFLAG	_	10	C0000 C0000 A9 04 C002 8D B5 02 C005 20 3A C5 C008 20 CC C4 C00B A9 00 C010 A9 93 C012 20 D2 F5 C015 A9 0F C017 8D 21 D0 C01A 8D 20 D0 C01A 8D 20 D0 C01B A9 A0 CE C022 85 0A C024 20 CA CC C027 A2 09 C029 A0 11 C02B 18 C02C 20 F0 FF C02F A9 DD C031 A0 CC C033 20 1E AB C038 85 0A C038 85 0A C039 A0 CE C038 85 0A C039 A0 CC C038 20 CA CC C040 A2 0C C042 A0 12 C044 18	NUMEROENO	LDA	#4
C000	FLOP	_	12	C000 A3 04		STA	LEVEL
C000	TEMP	_	16	COOK OD BU UZ	CTART	JSR	SETUP
C000	ODIR	=	63	C003 20 3A C3	SIANI	JSR	INIT
C000	FLOPTIMER		64	COUR AG OO		LDA	#0
C000	JOYL	_	65	C00D A5 00		STA	53269
C000	JOYH	_	66	CO10 A9 93		I DA	#"{CLR}"
C000	BALLL	_	78	C012 20 D2 FF		LDA JSR	#"{CLR}" \$FFD2
C000	BALLH	=	79	C015 A9 00		LDA	#0
C000	LASERL	=	679	C017 8D 21 D0		STA	53281
C000	LASERH	=	680	C01A 8D 20 D0		STA	53280
C000	ALREADFIR	=	83	C01D A9 2F		LDA	#46
C000	DIR2	=	84	CO1F 8D AO CE		STA	BOX
C000	LOW	=	170	C022 85 0A		STA	FIREFLAG
C000	HIGH	=	171	C024 20 CA CC		JSR	LASERED
C000	D1	_	147	C027 A2 09		LDX	#9
C000	D2	=	148	C029 A0 11		LDY	#17
C000	PIECE	_	149	C02B 18		CLC	
C000	Q1	=	149 251	C02C 20 F0 FF		JSR LDA	\$FFF0
C000	Q2	=	252	CO2F A9 DD		LDA	# <mess1< td=""></mess1<>
C000	Q3	=	253	C031 A0 CC		LDY	#>MESS1
C000	Q4	_	254	C033 20 1E AB		JSR LDA	\$AB1E
C000	SPRNUM	=	164	C036 A9 6D		LDA	#109
C000	TEMP2	=	165	C038 8D A0 CE		STA	BOX
C000	SPRNUM2	==	166	C03B 85 0A		STA	FIREFLAG
C000	GOODNUM	=	167	C03D 20 CA CC		JSR	LASERED
C000	COUNT	_	168	C040 A2 0C		LDX	#12
C000	FLAG2	=	169	C042 A0 12		LDY	#18
C000	FLAG2LOW	=	682	C044 18	WTY2 X W	CLC	
C000	NUMSPR		690	C045 20 F0 FF		JSR	\$FFF0
C000	NUMMEN	=	691	C048 A9 E9		LUA	# <mess2< td=""></mess2<>
C000	IGNORE	-	692	CU4A AU CC		LDY	#>MESS2
C000	XPOS	=	828	004C AO OD	WITVO	JOH	\$AB1E #11
C000	LEVEL	=	693 694	C04F AZ UD	WITZ	LDA	162
C000	VOUNTL	=	695	CO52 C5 A2	X.	CMAD	162
C000	Vount Vounth	=	696	COSS CS AZ	VV	BEQ	W
C000	SCOREL	=	697	C053 F0 FC		DEY	**
C000	SCOREH	=	698	C057 CA		RNF	X
C000	SCOREL SCOREH YPOS XPOSH XDIR YDIR DELTAX DELTAX XPOSL YPOSL SPOTTER UPLIMIT DOWN! IMIT	=	838	C044 18 C045 20 F0 FF C048 A9 E9 C04A A0 CC C04C 20 1E AB C051 A5 A2 0B C051 A5 A2 C053 C5 A2 C055 F0 FC C057 CA C058 D0 F7 C05A AD B5 02 C05D 09 30		LDA	LEVEL
C000	XPOSH	=	838 848	C05D 09 30		ORA	#48
C000	XDIR	=	858	C05D 09 30 C05F 8D 70 06 C062 AD 00 DC		STA	1648
C000	YDIR	=	868	C062 AD 00 DC		LDA	\$DC00
C000	DELTAX	=	878	C065 4A		LSR	******
C000	DELTAY	=	888	C066 B0 0A		BCS	NTUP
C000	XPOSL	=	898	C068 AE B5 02		LDX	LEVEL
C000	YPOSL	=	908	C06B E0 09		LDX CPX	#9
C000	SPOTTER	=	918	C06D F0 03		BEQ	NTUP
C000	UPLIMIT	=	55	C06F EE B5 02		INC	LEVEL
C000	DOMINERAL		215	C072 4A	NTUP	LSR	
C000	LEFTLIMIT	=	55 55	C073 B0 08		BCS	NTDOWN
C000	RIGHTLIMI		55	C075 AE B5 02		LDX	LEVEL
C000	FLOPPER	=	9	C078 F0 F8		BEQ	NTUP
C000	NUMBALLS		7	C078 F0 F8 C07A CE B5 02 C07D 4A		DEC	LEVEL
C000	LOWBYTE	-	\$CF00	C07D 4A	NTDOWN	LSR	
C000	HIGHBYTE	=	\$CF80	C07E 4A		LSR	
C000	LASERDIR	=	\$CE80	CO7F 4A		LSR	WTV0
C000	BOX	=	\$CEA0	C080 B0 CD		BCS	WTY2

C082 AD B5 02		LDA	LEVEL	C125 4A	VP	LSR	
C085 29 0F		AND	#15	C126 90 1A	•.	BCC	NP
C087 8D B5 02		STA	LEVEL	C128 48		PHA	
C08A A9 03		LDA	#3	C129 BD 26 D0		LDA	53286,X
C08C 8D B3 02		STA	NUMMEN	C12C 29 0F		and	#15
C08F A9 00		LDA	#0	C12E C9 01		CMP	#1
C091 8D B9 02		STA	SCOREL	C130 F0 0F		BEQ	NR
C094 8D BA 02	NEM	STA	SCOREH	C132 A9 01		LDA	#1
CU9/ A9 UA	NEWL	LDA	#10	C134 9D 26 D0		STA	53286,X
C004 ED DE 03		SEC	1.57/51	0137 CA		DEX	0000111114
COSA ED BJ 02		ACI	LEVEL	C130 E4 A/		DNE	GOODNUM
C09E 85 4F		STA:	RALLH	C13A D0 04		LDA	BAUN #24
COAO 85 4F		STA	RALLI	C13E 85 A9		STA	#24 El AG2
COA2 A9 07		LDA	#7	C140 F8	BACK	INX	ILAUZ
C0A4 8D B2 02		STA	NUMSPR	C141 68	NR NR	PiA	
COA7 20 E2 CA		JSR	CHAR	C142 E8	NP	INX	
COAA 20 19 C7		JSR	SCREENSET	C143 E0 09		CPX	#9
C0AD 20 CC C4		JSR	INIT	C145 D0 DE		BNE	VP
COBO 20 46 C3		JSR	ADDIT	C147 60		RTS	
C0B3 A9 14		LDA	#20	;			
C0B5 8D B7 02		STA	VOUNT	shoot the laser;			
C088 20 7B C7	BUCK	JSR	SPRITE	i			
COBB AC B3 02		LDY	NUMMEN	C148	SHOOT	==	*
COBE VO 30		INY	<b>#20</b>	C148 A5 0A		LDA	FIREFLAG
COC1 00 DE 07		LDA	#32	C14A DU 03		BNE	PART2
COC1 99 DF U/		DEV	2015,1	C14C 4C 16 C2	DADTO	JMP	AROU
COC5 AQ 28	VI P	LDA	#40	C147 AD 84 UZ	PAR12	LUA	IGNURE
COC7 99 DE 07	VLI	STA	790 2015 V	C152 DU U0		DINE	PARI
COCA A9 07		IDA	47	C154 20 EC C0		JOU	DADT
COCC 99 DF DB		STA	2015 + 54272 Y	C159 4C 1A C2		IMP	LETGO
COCF 88		DEY	2010 1 0 1212,1	C15C A5 53	PART	I DA	ALREADFIRE
C0D0 D0 F3		BNE	VLP	C15E D0 2D	.,	BNE	FINISHIT
COD2 20 A9 C5		JSR	SPRMOVE	C160 AE AO CE		LDX	BOX
COD5 A5 A2		LDA	162 ·	C163 BD 00 CF		LDA	LOWBYTE,X
C0D7 C5 A2	WT	CMP	162	C166 85 AA		STA	LOW
COD9 FO FC		BEQ	WT	C168 85 FB		STA	Q1
CODR AD 1E DO		LDA	53278	C16A BD 80 CF		LDA	HIGHBYTE,X
CODE AD IF DU	MAIN	LUA	532/9	C16D 85 AB		STA	HIGH
COE1 20 A9 C3	IVIAIN	JOH.	SPRIMUVE	016F 85 FC		SIA	Q2
COE6 DO 15		DEC	JUTL NO IOV	C171 BD 00 CE		LUA	LASER,X
COE8 A5 42		I DV	NO3O1	C174 80 04		SIA	DIR2
COFA 85 41		STA	10VI	C170 4A C177 QO OR		LOH	CHODI
COEC 20 F7 C5		JSR	JOYSTICK	C177 30 00		DOC	9UUN1
COEF 20 85 CC		JSR	TIMER	C178 85 95		CTA	MO4
C0F2 20 45 CD		JSR	BONUS	C17D A9 24		IDA	#36
C0F5 A9 00		LDA	#0	C17F D0 06		BNE	P1
C0F7 8D B4 02		STA	IGNORE	C181 A9 42	SHORT	LDA	#66
COFA 20 48 C1		JSR	SH00T	C183 85 95		STA	PIECE
COFD C6 4E	NOJOY	DEC	BALLL	C185 A9 16		LDA	#22
COFF DO 07		BNE	NOBALL	C187 85 93	P1	STA	D1
C101 A5 4F		LDA	BALLH	C189 85 94		STA	D2
C103 85 4E		SIA	BALLL	C18B 85 53		STA	alreadfire
C100 Z0 GZ G3	NODALI	JSK	BALL	C18D A5 54	FINISHIT	LDA	DIR2
C100 EA	NODALL NOLACED	NUP	CLICOLOD	C18F C9 23		CMP	#35
C100 20 1F C1	NULASEN	JON	COLLICION	C191 BU 17		BCS	SUBTRACT
C10F 20 37 CC		ISB	FORRIDDEN	C105 D0 04		DNE	#33 TUTTI C
C112 AD 8D 02		LDA	653	C193 D0 04		I DY	H1
C115 FO CA		BEO	MAIN	C199 DD 02		BNF	π I P2
C117 AD 8D 02	VUTU	LDA	653	C198 A9 28	TUTTI F	I DA	#40
C11A D0 FB		BNE	VÚTU	C19D 18	P2	CLC	., 10
C11C 4C E1 C0		JMP	MAIN	C19E 65 AA	•	ADC	LOW
; change ball colo	r			C1A0 85 AA		STA	LOW
C11F	CHCOLOR	=	•	C1A2 A5 AB		LDA	HIGH
U11F A2 02		LDX	#2	C125 4A C126 90 1A C128 48 C129 BD 26 D0 C126 29 0F C126 29 0F C126 29 0F C126 29 0F C127 29 0F C127 29 0F C138 49 0 26 C137 CA C138 E4 A7 C13A 49 0 26 C137 CA C138 E4 A7 C13A 49 0 26 C137 CA C138 E5 A9 C140 E8 C142 E8 C143 E0 09 C144 E8 C143 E0 09 C144 E8 C144 BA 5 0A C144 D0 03 C146 C16 C2 C147 60  : : shoot the laser : c148 A5 0A C14A D0 03 C14C C14F AD BA C14A D0 03 C14C AC 16 C2 C152 D0 08 C154 20 EC C6 C153 BD 00 CF C166 B5 FB C16A BD 80 CF C16B B5 FB C16A BD 80 CF C16B B5 FB C16A BD 80 CF C16B B5 FC C177 B0 08 C157 A9 00 C177 A9 08 C177 B0 09 C178 B5 54 C16B 85 FB C177 PB 90 OB		ADC	#0
0121 AD 11 DU		LUA	53279	C1A6 85 AB		STA	HIGH
U124 4A		L2H		C1A8 DO 19		BNE	DUNT

			#36 BIG #1 P3 #40 TEMP LOW TEMP LOW HIGH #0 HIGH PIECE #0 (LOW),Y LOW #<54272 Q3 HIGH #32 FINIS #33 FINIS #34 FINIS #34 FINIS #35 FINIS #36 FINIS #37 FINIS #37 FINIS #38 FINIS #39 FINIS #39 FINIS #30 FINIS #30 FINIS #31 FINIS #32 FINIS #33 FINIS #34 FINIS #35 FINIS #36 FINIS #37 FINIS #37 FINIS #38 FINIS			<b>-</b>	
C1AA C9 24	SUBTRACT	CMP	#36	C23A 8A		IXA PHA	
C1AC FU U4		IDA	#1	C23C 20 17 C3		JSR	MAKESAFE
C1B0 D0 02		BNE	P3	C23F 68		PLA	
C1B2 A9 28	BIG	LDA	#40	C240 AA		TAX	
C1B4 85 10	P3	STA	TEMP	C241 A9 1A		LDA	#26
C1B6 A5 AA		LDA	LOW	C243 85 A9		SIA	FLAG2
C1B8 38		SEC	TEMAD	C240 80 10		PIN	#N
C1BB E5 10		STA	I DW	C249 AO OS		LDX	#6
C1BD A5 AB		LDA	HIGH	C24B B9 28 D0	TMP	LDA	53288,Y
C1BF E9 00		SBC	#0	C24E 29 0F		AND	#15
C1C1 85 AB		STA	HIGH	C250 C9 01		CMP	#1
C1C3 A5 95	DUNT	LDA	PIECE	C252 DU U1		INIX	NPI
C1C5 AU UU		STA	#U (I ()W) Y	C255 88	NPI	DFY	
C1C9 A5 AA		LDA	LOW	C256 10 F3		BPL	TMP
C1CB 18		CLC		C258 BD 32 C5		LDA	SCORTAB,X
C1CC 69 00		ADC	#<54272	C25B 18		CLC	000051
C1CE 85 FD		STA	Q3	C25C 6D B9 02		ADC	SCUREL
C1D0 A5 AB		LDA	HIGH #> 54272	C20F 8D B9 02		I DA	SCORFH
C1D2 09 D4		STA	#>54212 04	C265 69 00		ADC	#0
C1D6 A9 0A		LDA	#10	C267 8D BA 02		STA	SCOREH
C1D8 A0 00		LDY	#0	C26A 20 78 CD		JSR	SCOROUT
C1DA 91 FD		STA	(Q3),Y	C26D A6 10		LDX	TEMP
C1DC A9 80		LDA	#128	C26F A9 FF		LDA	#200 VDOC V
C1DE 8D 0B D4		SIA	\$D40B #8	C271 9D 40 03		DEC	NUMSPR
C1E1 A9 00		STA	\$D40C	C277 DO 50		BNE	NOTOVER
C1E6 A5 93		LDA	D1	C279 A9 00		LDA	#0
C1E8 18		CLC		C27B 8D 15 D0		STA	53269
C1E9 69 0A		ADC	#10	C27E A9 93		LDA	#"{CLR}"
C1EB OA		ASL	¢D400	C280 20 D2 FF		1 DX	ֆFFU2 #10
C1EC 8D 08 D4		I DA	ΦD <del>4</del> 00 #120	C285 AO OF		LDY	#15
C1F1 8D 0B D4		STA	\$D40B	C287 18		CLC	
C1F4 C6 93		DEC	D1	C288 20 F0 FF		JSR	\$FFF0
C1F6 D0 1E		BNE	AROU	C28B 20 D5 C2		JSR	LEVLSOUND
C1F8 A5 95		LDA	PIECE	C28E A9 20		LDA	# <mess4< td=""></mess4<>
C1FA C9 20		DEO	#32 EINIC	C290 AU CD		JSB	\$AR1F
C1FE A9 20		I DA	#32	C295 AD B7 02		LDA	VOUNT
C200 85 95		STA	PIECE	C298 0A		ASL	
C202 A5 FB		LDA	Q1	C299 85 10		STA	TEMP
C204 85 AA		STA	LOW	C29B UA		ASL	
C205 A5 FC		CTA	UZ HICH	C29C UA C29D 18		ULC	
C200 05 AB		IDA	D2	C29E 65 10		ADC	TEMP
C20C 85 93		STA	D1	C2AO AA		TAX	
C20E D0 06		BNE	AROU	C2A1 48		PHA	***
C210 A9 00	FINIS	LDA	#0	C2A2 A9 UU		LDA	#U
C212 85 UA		SIA	AI DEADEIDE	C2A4 20 CD BD		JON PI A	<b>\$</b> 0000
C214 60 00	AROU	RTS	ALREADI INC	C2A8 18		CLC	
C217 4C D4 C2	JRITZ	JMP	RITZ	C2A9 6D B9 02		ADC	SCOREL
C21A A9 00	LETG0	LDA	#0	C2AC 8D B9 02		STA	SCOREL
C21C 85 0A		STA	FIREFLAG	C2AF AD BA 02		LDA	SCOREH
C21E A6 A6		LDX	SPRNUM2	C2B2 69 00		STA	#U SCORFH
C220 BD 96 03		CMP	SPULLEN,A	C2B7 A9 00		LDA	#0
C225 90 F0		BCC	JRITZ	C2B9 85 A2		STA	162
C227 AD 50 03		LDA	XPOSH	C2BB A5 A2	WISH	LDA	162
C22A F0 EB		BEQ	JRITZ	C2BD C9 78		CMP	#120
C22C AD 3C 03		LDA	XPOS	C2BF D0 FA		RNF	WISH
C22F C9 37		CMP	#KIGHTLIMIT	C2C1 08		PLA PLA	
C233 AD 46 03		IDA	YPOS	C2C3 EE B5 02		INC	LEVEL
C236 C9 D6		CMP	#DOWNLIMIT-1	C2C6 4C 97 C0		JMP	NEWL
C238 90 DD		BCC	JRITZ	C2C9 20 23 C3	NOTOVER	JSR	DNSOUND

C2CC A9 01 C2CE 9D 96 03 C2D1 20 FF C2 C2D4 60	RITZ	LDA STA JSR RTS	#1 SPOTTER,X PICK  #20 \$D404 \$D408 #10 \$D405 \$D405 \$D406 LEVEL  #5 \$D401 #35 \$D400 #21 \$D408  COUNT COUNT COUNT COUNTAB,X GOODNUM 53280 #7 COLTAB,Y 53287,Y MMMM #24 #5 FUT UP  #20 \$D408 NUMSPR #4 \$D401 NUMMEN  \$12 \$D406 \$D408 \$D	C346 EE AO CE C349 AD AO CE C34C C9 7A C34E DO 11	ADDIT	INC LDA CMP BNE	BOX BOX #122 OK7
; ; next level sound				C350 A9 00 C352 8D A0 CE		LDA STA	#0 BOX
CODE	I EM COUND	_	*	C355 FU UA	CLIDITS	REC	UK/ ROY
C2D5 A9 14	LEAF200MD	I DA	#20	C35A 10 05	SUBITS	RPI	OK7
C2D7 8D 04 D4		STA	\$D404	C35C A9 79		LDA	#121
C2DA 8D 0B D4		STA	\$D40B	C35E 8D A0 CE		STA	BOX
C2DD A9 OA		LDA	#10	C361 AD AO CE	OK7	LDA	BOX
C2DF 8D 05 D4		SIA	\$U4U3 \$D4O2	C364 AB		IAY	NOSIT
C2E5 AD B5 02		LDA	LEVEL	C368 B9 00 CE		LDA	LASER.Y
C2E8 0A		ASL		C36B 20 9C C3		JSR	PUTIT
C2E9 18		CLC		C36E 60		RTS	
C2EA 69 U5		ADC	#5 en.401	;	und		
C2EC 6D 01 D4		I DA	ΦD401 #35	, laser moving so	una		
C2F1 8D 08 D4		STA	\$D408	C36F	NOSIT	==	*
C2F4 A9 11		LDA	#17	C36F AD 9B C3		LDA	PULSE
C2F6 8D 04 D4		STA	\$D404	C372 C9 19		CMP	#25
C2F9 A9 ID		LUA STA	#21 \$D#08	C374 BU U3		INC BC2	DILLAS
C2FE 60		RTS	Ψυτου	C379 D0 05		BNE	LAS2
;				C37B A9 05	SNDLAS	LDA	#5
C2FF E6 A8	PICK	INC	COUNT	C37D 8D 9B C3		STA	PULSE
C301 Ab Ab		LDX	COLTAD V	C380 A9 14	LAS2	LDA	#20 ¢D40D
C306 86 A7		STX	GOODNUM	C385 A9 07		IDA	ФU40Б #7
C308 8D 20 D0		STA	53280	C387 8D 01 D4		STA	\$D401
C30B A0 07		LDY	#7	C38A AD 9B C3		LDA	PULSE
C30D B9 F9 C7	MMM	LDA	COLTAB,Y	C38D 8D 08 D4		STA	\$D408
C310 99 27 DU		DEV	3320 <i>1</i> ,1	C390 A9 20		STA	#32 T 0 \$D40C
C314 10 F7		BPL	MMM	C395 A9 15		LDA	#21
C316 60		RTS		C397 8D 0B D4		STA	\$D40B
C317 A2 18	MAKESAFE	LDX	#24	C39A 60	DI # 05	RTS	-
C319 AU U5	UP	LDY TYA	#5	C39B 05	PULSE	.BYI	5
C31C 20 A5 CC		JSR	FUT	C39C 48	PUTIT	PHA	
C31F CA		DEX		C39D AD AO CE		LDA	BOX
C320 D0 F7		BNE	UP	C3A0 A8		TAY	LOWDVIEW
. 6322 60		RIS		C3A1 B9 UU CF		LDA	LOWBYTE,Y
got one ball in	sound			C3A6 B9 80 CF		LDA	HIGHBYTE.Y
;				C3A9 85 05		STA	5
C323	DNSOUND	=	*	C3AB 68		PLA	
C323 A9 14		LUA	#20 ¢D40D	C3AC A0 00		LDY	#U
C328 AD B2 02		IDA	NUMSPR	C3R0 A5 04		LDA	4
C32B 18		CLC		C3B2 18		CLC	•
C32C 69 04		ADC	#4	C3B3 69 00		ADC	#<54272
C32E 8D 01 D4		STA	\$D401	C3B5 85 04		STA	4
C331 AD B3 UZ		ASI	NUMMEN	C3B7 A3 U3		ADC:	ວ #∿54272
C335 0A		ASL		C3BB 85 05		STA	5
C336 0A		ASL		C3BD A9 07		LDA	#7
C337 0A		ASL	<b>CD400</b>	C3BF 91 04		STA	(4),Y
C33B A9 OC		5 IA	ֆ⊔408 #12	030100		HI5	
C33D 8D 0C D4		STA	\$D40C	; ballmoving routi	ne		
C340 A9 15		LDA	#21				
C342 8D 0B D4		STA	\$D40B	C3C2	BALL	=	# ## ## ## # # # # # # # # # # # # # # #
		HIS		C3C2 C3C2 A2 07 C3C4 BD 96 03 C3C7 F0 03 C3C9 4C 83 C4 C3CC BD 46 03	RALLOOP1	LDX	#NUMBALLS
; move the lasers				C3C7 F0 03	DriLLOUI I	BEQ	BOU
				C3C9 4C 83 C4		JMP	DN
C346	LASERMOVE	=	▼	C3CC BD 46 03	ROU	LDA	YPOS,X

C3CF C9 37		CMP	#UPLIMIT	C483 CA	DN	DEX	
C3D1 D0 05		BNE	NOB1	C484 F0 03		BEQ	REI1
C3D3 FE 46 03		INC	YPOS,X	C486 4C C4 C3	DET4	JMP	BALLOUPT
C3D6 D0 07	NODA	RNF	BOUNCE	C489 60 C484 30 47 C4	HEII DANDOMIZE	KI2	DANIDOM
C3D8 C9 D7	NORI	UMP	#DUWINLINIII	C40A 2U A/ U4	RANDUIVIIZE	JOU	NANDOW
C3DA DU 11		DIVE	VDOC V	C40D 10		VDC.	DELTAY Y
C3DC DE 40 U3	BUINCE	LDV	VDIR Y	C40E 7D 0E 03		CMP	#100
C3D1 DD 04 03	DOUNGE	FOR	#1	C493 90 03		BCC	DONT
C3E4 9D 64 03		STA	YDIR X	C495 9D 6F 03		STA	DELTAX.X
C3F7 20 8A C4		JSR .	RANDOMIZE	C498 20 A7 C4	DONT	JSR	RANDOM
C3FA 20 B7 C4		JSR	BONK	C49B 18		CLC	
C3ED BD 3C 03	NOBOUNCE	LDA	XPOS.X	C49C 7D 78 03		ADC	DELTAY,X
C3F0 C9 37		CMP	#LEFTLIMIT	C49F C9 96		CMP	#150
C3F2 D0 0A		BNE	NE1	C4A1 90 03		BCC -	DONT2
C3F4 BD 50 03		LDA	XPOSH,X	C4A3 9D 78 03		STA	DELTAY,X
C3F7 D0 05		BNE	NE1	C4A6 60	DONT2	RTS	
C3F9 FE 3C 03		INC	XPOS,X	C4A7 AD 1B D4	RANDOM	LDA	\$D41B
C3FC D0 0F		BNE	BOUNCE2	C4AA 29 1F		AND	#31
C3FE BD 3C 03	NE1	LDA	XPUS,X	CAAC AC 18 D4		LUY	\$D41B
C401 C9 37		CMP	#KIGHTLIMIT	CART IU UD		EOD	UN 42EE
C403 D0 16		BINE	NUBUZ VDOCH V	C4D1 49 FF		CLC	#233
C400 E0 11		DEO.	APUON,A MODO2	C4D3 10 C4D4 60 01		ADC	#1
C400 FU 11		DEG	YDOS Y	C4B4 65 01	UK	RTS	π ι
C40A DE 3C 03	BOLINGES	I DA	AFUS,A YNIR Y		OK	1113	
C400 00 0A 00	DOUNGEZ	FOR	#1	hall hounce sou	nd routine		
C412 9D 5A 03		STA	XDIR X	; ban boarloo coo	na roamo		
C415 20 8A C4		JSR	RANDOMIZE	C4B7	BONK	=	*
C418 20 B7 C4		JSR	BONK	C4B7 A9 80		LDA	#128
C41B BD 5A 03	NOBO2	LDA	XDIR,X	C4B9 8D 04 D4		STA	\$D404
C41E D0 1D		BNE	SUBIT	C4BC A9 40		LDA	#64
C420 BD 82 03		LDA	XPOSL,X	C4BE 8D 05 D4		STA	\$D405
C423 18		CLC		C4C1 A9 14		LDA	#20
C424 7D 6E 03		ADC	Deltax,X	C4C3 8D 01 D4		STA	\$D401
C427 9D 82 03		STA	XPOSL,X	C4C6 A9 81		LDA	#129
C42A BD 3C 03		LDA	XPOS,X	C4C8 8D 04 D4		SIA	\$D404
C42D 69 00		ADC	#U	U4UB 60		KIS	
C42F 9D 3C 03		SIA	XPUS,X	i i initializationa			
C432 BD 50 03		LDA	XPUSH,X	, imitalizations			
C437 00 50 03		CTA	#U	CACC	INIT	_	*
C437 9D 30 03		IMP	NEUSII,N	C4CC 20 54 CC		JSR	SETSID
C43D RD 82 03	SHRIT	I DA	XPOSI X	C4CE A9 00		I DA	#0
C440 38	00011	SEC	74 GOLJA	C4D1 85 OC		STA	FLOP
C441 FD 6E 03		SBC	DELTAX.X	C4D3 85 0A		STA	FIREFLAG
C444 9D 82 03		STA	XPOSL,X	C4D5 85 53		STA	alreadfire
C447 BD 3C 03		LDA	XPOS,X	C4D7 A9 09		LDA	#FLOPPER
C44A E9 00		SBC	#0	C4D9 85 40		STA	FLOPTIMER
C44C 9D 3C 03		STA	XPOS,X	C4DB 8D AA 02		STA	FLAG2LOW
C44F BD 50 03		LDA	XPOSH,X	C4DE A9 80		LDA	#128
C452 E9 00		SBC	#0	C4E0 8D 0F D4		SIA	54287
C454 9D 50 03	D01/	SIA	XPUSH,X	C4E3 8D 12 D4		SIA	5429U
C457 BD 64 U3	DOY	LUA	YUIK,X	C4E0 A9 U8		CTA	#0 IOVI
C45A DU 15		RINE	SUBITZ	C4E6 63 41		STA	JOTE
C45C BD 6C US		CLC	Truat,A	C4EC 40 03		IDA	#3
C40F 10		ADC	DELTAY Y	C4FF 8D B8 02		STA	VOLINTH
C463 9D 8C 03		STA	YPOSI X	C4F1 A9 07		LDA	#7
C466 BD 46 03		LDA	YPOS.X	C4F3 8D A7 02		STA	LASERL
C469 69 00		ADC	#0	C4F6 8D A8 02		STA	LASERH
C46B 9D 46 03		STA	YPOS.X	C4F9 A0 07		LDY	#NUMBALLS
C46E 4C 83 C4		JMP	DN	C4FB 20 2A C5	L00P1	JSR	RAND
C471 BD 8C 03	SUBIT2	LDA	YP0SL,X	C4FE 99 6E 03		STA	DELTAX,Y
C474 38		SEC		C501 20 2A C5		JSR	RAND
C475 FD 78 03		SBC	DELTAY,X	C504 99 78 03		STA	DELTAY, Y
C478 9D 8C 03		STA	#UPLIMIT NOB1 YPOS,X BOUNCE #DOWNLIMIT NOBOUNCE YPOS,X YDIR,X #1 YDIR,X #1 YDIR,X RANDOMIZE BONK XPOS,X #LEFTLIMIT NE1 XPOSH,X NE1 XPOSH,X NE1 XPOSH,X NE1 XPOSH,X NBOUNCE2 XPOSH,X NBOUNCE2 XPOSH,X NOBO2 XPOSH,X XPOS,X XDIR,X #II XDIR,X RANDOMIZE BONK XDIR,X SUBIT XPOSL,X YPOSL,X	C507 AD 1B D4		LDA	\$D41B
C47B BD 46 03		LDA	YPOS,X	C50A 29 01		AND	#1 VDID V
C47E E9 00		SBC	#U VD00 V	C50C 99 5A 03		SIA	XDIK,Y
C480 9D 46 03		SIA	TPUS,X	COUL AD 18 D4		LUA	<b>⊉</b> 141B

C512 29 01	AND	#1	C59B 9D 00 CE		STA	LASER,X
C514 99 64 03	STA	YDIR,Y	C59E A5 02		LDA	2
C517 88	DEY	10004	C5A0 9D 00 CF		STA	LOWBYTE,X
C510 DU E1	I DA	#Q	C5A5 A5 U3		STA	3 HIGHBYTE,X
C51C 85 A4	STA	SPRNUM	C5A8 60		RTS	THUIDITE,X
C51E A9 00	LDA	#0	;			
C520 85 A8	STA	COUNT	; sprite movement	routine		
C522 20 FF C2	JSR	PICK	; CEAO	CDDMOVE	_	
C527 85 3F	STA	M I	C5A9 A9 00	SPHIVIUVE	I DA	#N
C529 60	RTS	ODIN	C5AB 85 10		STA	TEMP
C52A AD 1B D4 RA	AND LDA	\$D41B	C5AD A2 07		LDX	#7
C52D C9 96	CMP	#150	C5AF AO OE		LDY	#14
C52F 90 F9	BCC	RAND	C5B1 BD 96 03	SPRLOOP1	LDA	SPOTTER,X
C532 00 05 0A SC	CORTAR RYT	0.5.10.20.40.80.120	C586 DO 12		RNF	#Z NET
0002 00 00 07. 00		160	C5B8 AD 3C 03		LDA	XPOS
;			C5BB 9D 3C 03		STA	XPOS,X
; set up laser movem	nent		C5BE AD 46 03		LDA	YPOS
	ETUD		C5C1 9D 46 03		SIA	YPOS,X XPOSH
C53A A2 FF	I DY	#255	C5C7 QD 50 03		CTA	XPOSH,X
C53C A9 03	LDA	#<1027	C5CA BD 50 03	NET	LDA	XPOSH.X
C53E 85 02	STA	2	C5CD 4A		LSR	• • • • • • •
C540 A9 04	LDA	#>1027	C5CE 26 10		ROL	TEMP
C542 85 03	STA	3	C5D0 BD 3C 03		LDA	XPOS,X 53248,Y
C544 A9 22 VL	JUP LDA	#34 DIT	C5D3 99 00 D0		SIA	53248,Y YPOS,X
C549 E6 02	INC	2	C5D9 99 01 D0		STA	53249,Y
C54B A5 02	LDA	2	C5DC 88		DEY	00210,1
C54D C9 28	CMP	#40	C5DD 88		DEY	
C54F D0 F3	BNE	V00P	C5DE CA		DEX	
C551 C6 02	DEC DEC	2	C5DF 10 D0		BPL	SPRLOOP1
C551 C6 02 C553 A9 23 VC C555 20 94 C5	DEC DOP2 LDA	2 #35 PUT	C5DF 10 D0 C5E1 A5 10 C5E3 8D 10 D0		BPL LDA STA	TEMP 53264
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02	DEC DOP2 LDA JSR LDA	2 #35 PUT 2	C5DF 10 D0 C5E1 A5 10 C5E3 8D 10 D0 C5E6 60		BPL LDA STA RTS	TEMP 53264
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02 C55A 18	DEC DOP2 LDA JSR LDA CLC	2 #35 PUT 2	C5DF 10 D0 C5E1 A5 10 C5E3 8D 10 D0 C5E6 60 ;		BPL LDA STA RTS	SPRLOOP1 TEMP 53264
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02 C55A 18 C55B 69 28	DEC DOP2 LDA JSR LDA CLC ADC	2 #35 PUT 2 #40	C5DF 10 D0 C5E1 A5 10 C5E3 8D 10 D0 C5E6 60 ; ; joystick moveme	nt	BPL LDA STA RTS	SPRLOOP1 TEMP 53264
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02 C55A 18 C55B 69 28 C55D 85 02	DEC DOP2 LDA JSR LDA CLC ADC STA	2 #35 PUT 2 #40 2	C5DF 10 D0 C5E1 A5 10 C5E3 8D 10 D0 C5E6 60 ; ; joystick moveme	nt	BPL LDA STA RTS	SPRLOOP1 TEMP 53264
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02 C55A 18 C55B 69 28 C55D 85 02 C55F A5 03 C561 69 00	DEC DOP2 LDA JSR LDA CLC ADC STA LDA ADC	2 #35 PUT 2 #40 2 3	C5DF 10 D0 C5E1 A5 10 C5E3 8D 10 D0 C5E6 60 ; ; joystick moveme ; C5E7 C5E7 A9 00	nt JOYSTICK	BPL LDA STA RTS	* #0
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02 C55A 18 C55B 69 28 C55D 85 02 C55F A5 03 C561 69 00 C563 85 03	DEC DOP2 LDA JSR LDA CLC ADC STA LDA ADC STA	2 #35 PUT 2 #40 2 3 #0 3	CSDF 10 D0 CSE1 A5 10 CSE3 8D 10 D0 CSE6 60 ; ; joystick moveme ; CSE7 CSE7 A9 00 CSE9 85 06	nt JOYSTICK	BPL LDA STA RTS = LDA STA	TEMP 53264 * #0 DIR
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02 C55A 18 C55B 69 28 C55D 85 02 C55F A5 03 C561 69 00 C563 85 03 C565 A5 02	DIEC LDA JSR LDA CLC ADC STA LDA ADC STA LDA ADC STA LDA ADC	2 #35 PUT 2 #40 2 3 #0 3 2	CSDF 10 D0 CSE1 A5 10 CSE3 8D 10 D0 CSE6 60 ; ; joystick moveme; ; CSE7 CSE7 A9 00 CSE9 85 06 CSEB A0 00	nt JOYSTICK	BPL LDA STA RTS = LDA STA LDY	TEMP 53264 * #0 DIR #0
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02 C55A 18 C55B 69 28 C55D 85 02 C55F A5 03 C561 69 00 C563 85 03 C565 A5 02 C566 C9 E7	DIEC LDA JSR LDA CLC ADC STA LDA CMP RMF	2 #35 PUT 2 #40 2 3 #0 3 2 #231	CSDF 10 D0 CSE1 A5 10 CSE3 8D 10 D0 CSE6 60 ; ; joystick moveme; ; CSE7 CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53	nt JOYSTICK	BPL LDA STA RTS = LDA STA LDY LDA	* #0 DIR #0 ALREADFIRE
C551 C6 02 C553 A9 23 VC C555 20 9A C5 C558 A5 02 C55A 18 C55B 69 28 C55D 85 02 C55F A5 03 C561 69 00 C563 85 03 C565 A5 02 C567 C9 E7 C569 D0 E8	DOP2 LDA JSR LDA CLC ADC STA	2 #35 PUT 2 #40 2 3 #0 3 2 #231 V00P2	CSDF 10 D0 CSE1 A5 10 CSE3 8D 10 D0 CSE6 60 ; ; joystick moveme; ; CSE7 CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01	nt Joystick	BPL LDA STA RTS = LDA STA LDY LDA BEQ	SPHLOOP1 TEMP 53264  #0 #0 DIR #0 ALREADFIRE DUIT
C551 C6 02 C553 A9 23 VC C558 A5 02 C558 A5 02 C55A 18 C556 69 28 C55D 85 02 C55F A5 03 C561 69 00 C563 85 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C568 A9 BF	DOP2 LDA JSR LDA CLC ADC STA LDA ADC STA LDA ADC STA LDA CMP BNE LDA	2 #35 PUT 2 #40 2 3 40 3 2 2 4231 VOOP2 #191 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60 : joystick movems : CSE7 CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC	nt Joystick	BPL LDA STA RTS = LDA STA LDY LDA BEQ RTS LDA	* #0 DIR #0 ALREADFIRE DUIT
C551 C6 02 C553 A9 23 VC C555 A9 20 A C5 C558 A5 02 C558 A5 02 C550 85 02 C557 A5 03 C561 69 00 C563 85 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C568 A9 BF C568 A9 C565 C9 C567 A9 24 VC	DOP2 LDA JSR LDA CLC ADC STA LDA ADC STA LDA ADC STA LDA STA LDA STA LDA STA LDA DOP3 LDA	2 #35 PUT 2 #40 2 3 40 3 2 4231 VOOP2 #191 2 #36	CSDF 10 D0 CSE1 A5 10 CSE3 8D 10 D0 CSE6 60 : : joystick moveme: :CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF5 AD 00 DC CSF5 AD 00 DC	nt Joystick Duit	BPL LDA STA RTS = LDA STA LDY LDA BEQ RTS LDA LSR	* #0 DIR #0 ALREADFIRE DUIT \$DC00
C551 C6 02 C553 A9 23 VC C555 A5 02 C558 A5 02 C558 A5 02 C558 B5 02 C557 A5 03 C561 B9 00 C563 B5 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 B5 02 C567 A9 24 VC C571 20 9A C5	DOP2 LDA JSR LDA CLC ADC STA LDA ADC STA LDA CMP BNE LDA STA LDA	2 #35 PUT 2 #40 2 3 2 #231 V00P2 #191 2 #36 PUT	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60 ; ; joystick moveme ; CSE7 CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF5 4A CSF6 B0 0F	nt JOYSTICK DUIT	BPL LDA STA RTS = LDA STA LDY LDA BEQ RTS LDA LSR BCS	* #0 DIR #0 ALREADFIRE DUIT \$DC00 NOTUP
C551 C6 02 C553 A9 23 VC C555 A5 02 C558 A5 02 C558 A5 02 C550 B5 02 C557 A5 03 C561 69 00 C563 B5 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 B5 02 C567 A9 24 VC C571 20 9A C5 C571 C6 02	DOP2 LDA JSR LDA CLC ADC STA LDA ADC STA LDA CMP BNE LDA STA LDA CMP BNE LDA STA DOP3 LDA	2 #35 PUT 2 #40 2 3 2 #231 W00P2 #191 2 #36	CSDF 10 D0 CSE1 A5 10 CSE3 8D 10 D0 CSE6 60  ; ;joystick moveme; ;SE7 CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF2 AD 00 DC CSF3 AA CSF6 B0 0F CSF6 B0 0F CSF8 AE 46 03	nt Joystick Duit	BPL LDA STA RTS = LDA STA LDY LDA BEQ RTS LDA LSR BCS LDX	* #0 DIR #0 ALREADFIRE DUIT \$DC00 NOTUP YPOS
C551 C6 02 C553 A9 23 VC C558 A5 02 C558 A5 02 C558 B9 28 C550 B5 02 C557 A5 03 C561 69 00 C563 B5 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 B5 02 C567 A9 24 VC C571 C9 QA C5 C574 C6 02 C576 A5 02 C576 A5 02 C576 A5 02	DIEC LDA JSR LDA CLC ADC STA LDA ADC STA LDA CMP BNE LDA STA LDA CMP BNE LDA JSR DEC LDA	2 #35 PUT 2 #40 2 3 40 3 2 #231 VOOP2 #191 2 #36 PUT 2	CSDF 10 D0 CSE1 A5 10 CSE3 8D 10 D0 CSE6 60 ; ; joystick moveme; ; joystick moveme ; CSE7 CSE7 A9 00 CSEB A0 00	nt JOYSTICK DUIT	BPL LDA STA RTS = LDA LDA BEQ RTS LDA BEQ RTS LDA BCS LDA BCS LDA	* #0 DIR #0 ALREADFIRE DUIT \$DC00 NOTUP YPOS #UPLIMIT
C551 C6 02 C553 A9 23 VC C558 A5 02 C558 A5 02 C558 A5 02 C550 85 02 C557 A5 03 C561 69 00 C563 85 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C568 A9 BF C568 A9 C5 C574 C6 02 C574 C6 02 C576 A5 02 C578 C9 PA	DOP2 LDA JSR LDA JSR LDA ADC STA ADC STA LDA ADC STA LDA CMP BNE LDA JSR DEC LDA CMP RNE	2 #35 PUT 2 #40 2 3 40 3 2 #231 VOOP2 #191 2 #36 PUT 2 2 #154 VOOP3	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  ; joystick moveme ; CSE7 CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF5 4A CSF6 B0 OF CSF8 B0 03 CSFB E0 37 CSFB F0 03 CSFB E0 37 CSFB F0 C5	nt Joystick Duit	BPL LDA STA RTS  = LDA LDA BEQ RTS LDA LSR BCS LDX CPX BCS LDX	* #0 DIR #0 ALREADFIRE DUIT \$DC00 NOTUP YPOS #UPLIMIT NOTUP YPOS
C551 C6 02 C553 A9 23 C555 A9 23 C555 A9 20 C558 A5 02 C558 A5 02 C556 B5 02 C557 A5 03 C561 69 00 C563 85 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C568 A9 BF C568 B5 02 C574 C6 02 C574 C6 02 C578 C9 9A C578 C9 9A C578 C9 F3	DOP2 LDA JSR LDA JSR LDA ADC STA ADC STA LDA ADC STA LDA STA LDA CMP BNE LDA JSR DOP3 LDA CMP BNE LDA CMP BNE LDA CMP BNE LDA CMP BNE LDA	2 #35 PUT 2 #40 2 3 #0 3 2 #231 VOOP2 #191 2 2 #36 PUT 2 #154 VOOP3 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60 : : joystick movems: : CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF3 AA CSF6 B0 0F CSF8 AE 46 03 CSFB C0 37 CSFD F0 08 CSFD F0 08 CSFF CE 46 03 CSFC CE 60 07	nt Joystick Duit	BPL LDA STA RTS  = LDA STA LDY LDA BEQ RTS LDA LSR BEQ RTS LDA LSR BCS LDX CPX BEQ CPX BEQ LDX	* #0 DIR #0 ALREADFIRE DUIT  \$DC00  NOTUP YPOS #UPLIMIT NOTUP YPOS #1
C551 C6 02 C553 A9 23 C555 A9 23 C555 A5 02 C558 A5 02 C556 B5 02 C557 A5 03 C561 69 00 C563 85 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 85 02 C571 20 9A C5 C574 C6 02 C576 A5 02 C578 C9 9A C577 D0 F3 C577 E6 02 C576 E9 21 V0	DOP2 LDA JSR LDA ACLC ADC STA LDA ADC STA LDA ADC STA LDA STA LDA STA LDA DOP3 LDA JSR DEC LDA CMP BNE LDA CMP BNE LDA CMP BNE LDA	2 #35 PUT 2 #40 2 3 2 #0 3 2 2 #231 VOOP2 #191 2 #36 PUT 2 #154 VOOP3 2 #33	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  : joystick moveme: ; joystick moveme: ; CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF2 AD 00 DC CSF5 AA CSF6 B0 0F CSF8 AE 46 03 CSFB E0 37 CSFD F0 08 CSFF CE 46 03 CS602 A2 01 C604 86 06	nt Joystick Duit	BPL LDA STA RTS  = LDA STA LDY LDA BEQ RTS LDA LSR LDA LSR LDX CPX BEQ LDX CPX BEQ LDX STX	* #0 DIR #0 DIR #0 ALREADFIRE DUIT  \$DC00 NOTUP YPOS #UPLIMIT NOTUP YPOS #1 DIR
C551 C6 02 C553 A9 23 C555 A5 02 C558 A5 02 C556 B5 02 C557 A5 03 C566 A5 02 C566 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 B5 02 C577 C9 C7 C577 C9 C9 C577 C9 C7 C577 C9 C7	DOP2 LDA JSR LDA CLC ADC STA LDA ADC STA LDA CMP BNE LDA STA LDA JSR DEC LDA CMP BNE LDA STA LDA JSR DEC LDA JSR DEC LDA CMP BNE INC DOP4 JSR	2 #35 PUT 2 #40 2 3 2 #231 VOOP2 #191 2 #366 PUT 2 #154 VOOP3 2 #33 PUT	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  ; ;joystick moveme; ; CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSEB A0 00 CSEB A0 00 CSF1 60 CSF2 AD 00 DC CSF5 AA CSF6 B0 0F CSF8 AE 46 03 CSF8 E0 37 CSF9 E0 36 CS602 A2 01 CS04 86 06 CS06 CS	nt JOYSTICK DUIT	BPL LDA RTS  = LDA STA LDA BEQ RTS LDA LSR BCS LDX LDA LSR BCS LDX LDX STX INY	* #0 DIR #0 DIR #0 ALREADFIRE DUIT  \$DC00 NOTUP YPOS #1 DIR DIR #0 DIR #0 DIT #1 DIT #0 DIT #1
C551 C6 02 C553 A9 23 VC C558 A5 02 C558 A5 02 C558 B5 02 C558 B5 02 C557 A5 03 C566 A5 02 C566 A5 02 C567 C9 E7 C569 B0 E8 C568 A9 BF C560 B5 02 C567 A9 24 C577 C9 C7 C577 C9 C7	DOP2 LDA JSR LDA CLC ADC STA LDA ADC STA LDA CMP BNE LDA STA LDA CMP BNE LDA CMP BNE LDA CMP BNE LDA CMP BNE LDA STA LDA CMP BNE LDA CMP B	2 #35 PUT 2 #40 2 3 2 #231 W00P2 #191 2 #36 PUT 2 2 #38 V0OP3 2 #39 PUT 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  ; ;joystick moveme ;; CSE7 CSE7 A9 00 CSE9 85 06 CSE8 A0 00 CSED A5 53 CSEF A5 01 CSF1 60 CSF2 AD 00 DC CSF3 AB 00 CSFB B0 0F CSF6 B0 0F CSF6 B0 0F CSF6 B0 0F CSF7 CE 46 03 CSFF CE 46 03 CSOF CSE 46 03 CSFF CE 46 03 CSOF A9 00 CSFF CE 46 03 CSOF A9 00 CSFF CE 46 03 CSOF A9 00	nt Joystick Duit Notup	BPL LDA RTS  = LDA STA LDY LDA BEQ RTS BCS LCDY LDA BCS LCDY LDA LSR BCS L	* #0 DIR #0 ALREADFIRE DUIT  \$DC00  NOTUP YPOS #1 DIR  NOTUP YPOS #1 DIR
C551 C6 02 C553 A9 23 VC C558 A5 02 C558 A5 02 C558 B5 02 C558 B5 02 C557 A5 03 C566 A5 02 C566 A5 02 C567 C9 E7 C569 B0 E8 C568 A9 BF C560 B5 02 C567 A9 24 C571 20 9A C5 C574 C6 02 C576 A5 02 C576 A5 02 C576 A5 02 C576 A5 02 C577 E6 02 C577 E9 21 C577 E6 02 C578 A9 21 C570 E6 02 C578 A9 21 C580 A9 04 C570 E6 02 C576 A5 02 C577 E9 21 C580 A9 04 C577 E6 02 C578 A9 04 C577 E6 02 C578 A9 04 C578 A9 04 C578 A9 04 C578 A9 02 C578 A9 04 C579 E6 02 C578 A9 04 C570 E6 02 C576 A9 04 C576 B0 02 C577 E6 02 C577 E6 02 C578 A9 04 C578 A9 04 C578 A9 04 C579 E6 02 C579 E7 C580 A9 04 C580 E7 C580 E	DOP2 LDA JSR LDA JSR LDA ADC STA ADC STA ADC STA ADC STA ADC STA LDA CMP BNE LDA JSR DEC LDA CMP BNE LDA JSR DEC LDA CMP STA JSR LDA SEC STA S	2 #35 PUT 2 #40 2 3 2 #0 3 2 #231 W00P2 #191 2 #36 PUT 2 2 #37 W00P3 2 2 #37 W00P3 2 2 #40 440	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  ; ;joystick moveme; ; joystick moveme; ; joystick moveme; ; SE7 CSE7 A9 00 CSE9 85 06 CSE8 A0 00 CSED A5 53 CSEF FO 01 CSF1 60 CSF2 AD 00 DC CSF3 AA CSF5 4A CSF6 BO 0F CSF6 CE 46 03 CSFF CE 46 03	nt JOYSTICK DUIT NOTUP	BPL LDA RTS  = LSTA LDY LDA RTS  EDA LDY LDA RTS LDA LSR RTS LDA LSR LDX CPX CPX LDX STX LDX LSR BCS LDX LDX LSR LDX LDX LSR LDX LDX LSR LDX	* #0 DIR * #0 ALREADFIRE DUIT \$DC00 NOTUP YPOS #UPLIMIT NOTUP YPOS #1 DIR NOTDOWN YPOS
C551 C6 02 C553 A9 23 C555 A9 23 C555 A9 20 C558 A5 02 C558 A5 02 C556 B5 02 C556 B5 03 C561 69 00 C563 B5 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C568 B9 BF C568 B9 C568 A9 BF C577 C569 C0 C577 C569 D0 E8 C567 A9 24 C571 20 9A C577 B0 9A C578 C9	DOP2 LDA JSR LDA JSR LDA ADC STA LDA ADC STA LDA CMP BNE LDA JSR DOP3 LDA JSR DEC LDA CMP BNE LDA STB LDA SFE LDA CMP BNE LDA SFE LDA CMP SNE LDA SFE SFC SSC SSC SSC SSTA	2 #35 PUT 2 #40 2 3 4/0 3 2 #231 VOOP2 #191 2 #36 PUT 2 2 #37 4/0 2 #33 PUT 2 #40 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  ; joystick moveme ; CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF5 4A CSF6 B0 OF CSF6 B0 OF CSF6 B0 OF CSF6 B0 OF CSF7 CE 46 03 CSF8 E0 37 CSF8 E0 37 CSF8 E0 46 CSF8 E0 57 CSF8 E0 46 CSF8 E0 57 C	nt Joystick Duit Notup	BPL LDA RTS  = LDA STA LDY BEQ RTS BEQ RTS BCQ CPX BEQ LDX STX INY RSR BCS LCPX CPX LCPX LCPX LCPX LCPX LCPX LCPX	* #0 DIR #0 ALREADFIRE DUIT \$DC00 NOTUP YPOS #UPLIMIT NOTUP YPOS #1 DIR NOTDOWN YPOS #1 DIR
C551 C6 02 C553 A9 23 C555 A9 23 C555 A9 20 C558 A5 02 C558 A5 02 C556 B5 02 C557 A5 03 C566 B9 00 C563 B5 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 B5 02 C574 C6 02 C574 C6 02 C576 C9 9A C574 D0 F3 C570 E6 02 C578 C9 9A C574 D0 F3 C570 E6 02 C578 A5 02 C578 A5 02 C578 C9 9A C574 C6 02 C578 C9 9A C574 D0 F3 C570 E6 02 C578 A5 02 C578 B6 29 C578 C9 9A C570 B7 C583 A5 02 C586 B8 50 C586 E9 28 C586 E9 28 C588 B5 02 C588 A5 03	DOP2 LDA JSR LDA ACLC ADC STA LDA ADC STA LDA ADC STA LDA CMP BNE LDA CMP STA LDA CMP BNE LDA LDA JSR LDA LDA JSR LDA LDA LDA	2 #35 PUT 2 #40 2 3 #0 3 2 #231 VOOP2 #191 2 2 #36 PUT 2 #154 VOOP3 2 #33 PUT 2 #40 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  :	nt Joystick Duit Notup	BPL LDA RTS  = LDA STA LDY BEQ RTS BEQ BEQ BEC CPX BEQ DEC CPX BEQ BEC	* #0 DIR #0 ALREADFIRE DUIT  \$DC00 NOTUP YPOS #1 DIR  NOTUP YPOS #1 DIR  NOTDOWN YPOS #1 DIR  ** ** ** ** ** ** ** ** ** ** ** ** *
C551 C6 02 C553 A9 23 C555 A9 23 C555 A5 02 C558 A5 02 C556 B5 02 C557 A5 03 C566 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C568 A9 C57 C574 C6 02 C574 C6 02 C576 A5 02 C576 A5 02 C576 A5 02 C577 AD F3 C577 B 09 A C577 B 09 A C577 B 09 A C577 B 09 BA C577 B 09 BA C578 B 09 BA C578 B 09 BA C578 B 00 BB C588 B5 02 C588 A5 03 C586 E9 C8	DEC	2 #35 PUT 2 #40 2 3 2 #0 3 2 #231 VOOP2 #191 2 #36 PUT 2 #154 VOOP3 2 #33 PUT 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  : joystick moveme: ; joystick moveme: ; CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF2 AD 00 DC CSF5 AA CSF6 B0 0F CSF6 B0 0F CSF6 B0 0F CSF6 AE 46 03 CSFF CE 46 03	nt Joystick Duit Notup	BPL LDA RTS  = LDA STA LDY BEQ RTS LDA BEQ RTS LDA BEQ STX INY LSR BECS LDX CPX SINY LSR BECS LDX CPX INY LSR BEQ INC	* #0 DIR #0 DIR #0 ALREADFIRE DUIT  \$DC00 NOTUP YPOS #1 DIR NOTDOWN YPOS #1 NOTDOWN YPOS #DOWNLIMIT NOTOWN YPOS #DOWNLIMIT YPOS
C551 C6 02 C553 A9 23 C555 A5 02 C558 A5 02 C558 A5 02 C555 B5 02 C557 A5 03 C565 A5 02 C565 A5 02 C566 A9 BF C560 B5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 B5 02 C577 A9 C4 C571 20 9A C5 C574 C6 02 C576 A5 02 C576 A5 02 C577 A D0 F3 C577 E6 02 C578 A9 21 C580 20 9A C577 AD F3 C577 E6 02 C578 A9 21 C580 30 9A C577 AD F3 C577 E6 02 C578 A9 21 C580 30 9A C578 B9 28 C588 B5 02 C588 B5 03 C586 E9 00 C588 B5 03	DOP2 LDA JSR LDA CLC ADC STA LDA CMP BNE LDA STA	2 #35 PUT 2 #40 2 3 2 #231 VOOP2 #191 2 #366 PUT 2 2 #154 VOOP3 2 #33 PUT 2 #440 2 #40 2 #40 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  : joystick moveme: ; joys	nt Joystick Duit Notup	BPL LDA RTS  = LDA STA LDY LBEQ RTS LDA BEQ RTS LDA BEQ RTS LDX BEQ LDX	* #0 DIR #0 DIR #0 ALREADFIRE DUIT  \$DC00 NOTUP YPOS #1 DIR NOTDOWN YPOS #1 NOTDOWN YPOS #1 NOTDOWN YPOS #2 POR #2
C551 C6 02 C553 A9 23 C555 A5 02 C558 A5 02 C558 A5 02 C556 B5 02 C557 A5 03 C565 A5 02 C566 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 B5 02 C574 C6 02 C574 C6 02 C574 C6 02 C576 A5 02 C576 A5 02 C576 A5 02 C577 A 00 F3 C577 B 07 C578 A5 02 C578 A9 21 C578 A9 21 C578 B9 A0 C577 B 02 C578 B9 C9 C578 B5 02 C588 B5 02 C588 B5 02 C588 B5 03 C580 B9 00 C58E B5 03 C590 C9	DEC	2 #35 PUT 2 #40 2 3 #0 3 2 #231 VOOP2 #191 2 #36 PUT 2 2 #154 VOOP3 2 #33 PUT 2 #40 2 #40 2 #0 3 #0 7	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  ; joystick moveme; joystick moveme; CSE7 CSE7 A9 00 CSE9 85 06 CSE8 A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF5 AA CSF6 B0 0F CSF8 AE 46 03 CSF6 B0 0F CSF8 E0 37 CSF6 E0 37 CSF6 E0 37 CSF6 E0 37 CSF7 CE 46 03 C602 A2 01 C604 86 06 C606 C8 C607 AA C608 B0 0F C608 B0 0F C608 B0 0F C609 AE 46 03 C609 C8 C607 F0 08 C607 F0 08 C607 F0 08 C608 B0 0F C608 B0 0F C608 B0 0F C609 B0 0F	nt Joystick Duit Notup	BPL LDA RTS  = LDA STA LDY LDA BEQ RTS LDA BEQ RTS LDA BEQ BEQ LDX STX INY LSR BCS LDX CPX BINC LDX STX STX STX STX	* #0 DIR #0 DIR #0 ALREADFIRE DUIT  \$DC00 NOTUP YPOS #1 DIR  NOTDOWN YPOS #1 DOWNLIMIT NOTDOWN YPOS #2 DIR
C551 C6 02 C553 A9 23 C555 A9 23 C555 A9 23 C555 A5 02 C558 A5 02 C556 B5 02 C556 B5 02 C567 B6 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C568 B9 BF C568 B9 BF C568 A9 BF C568 A9 BF C567 A9 24 C571 20 9A C577 E6 02 C578 C9 9A C577 E6 02 C578 E9 9A C577 E6 02 C578 E9 9A C577 E6 02 C578 E9 9A C578 E9 9A C578 E9 9A C578 E9 9A C578 E9 E9 C588 A8 502 C588 A8 502 C588 A8 502 C588 E9 28 C588 B8 C588 E9 28 C588 B5 02 C588 A5 03 C590 C9 C8	DIEC LDA	2 #35 PUT 2 #40 3 3 40 3 2 #231 VOOP2 #191 2 #36 PUT 2 2 #36 PUT 2 2 #33 PUT 2 #40 2 2 #33 PUT 2 #33 PUT 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  ; joystick moveme; ; CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF3 AA 0 CSF6 B0 OF CSF6 B0 OF CSF6 B0 OF CSF8 E0 37 CSFB E0 60 80 CSFB E0 60 80 CSB E0 60 80	nt JOYSTICK  DUIT  NOTUP	BPL LDA RTS  - LDA STA LDY BEQ RTS BEQ LDX STX LDSR BEQ LDX STX INSR BEQ LDX STX INSR BEQ INC LDX BEQ INC BEQ I	* #0 DIR * #0 ALREADFIRE DUIT *DC00 NOTUP YPOS #UPLIMIT NOTUP YPOS #1 DIR * NOTDOWN YPOS #DOWNLIMIT NOTOOWN YPOS #DOWNLIMIT NOTOOWN YPOS #DOWNLIMIT NOTOOWN YPOS #2 DIR
C551 C6 02 C553 A9 23 C555 A9 23 C555 A9 C5 C558 A5 02 C556 B5 02 C557 A5 03 C566 B9 00 C563 B5 03 C565 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C568 A9 BF C568 A9 BF C568 A9 C5 C574 C6 02 C574 C6 02 C574 C6 02 C576 C9 PA C574 C6 02 C576 C9 PA C574 C6 02 C576 C9 PA C576 C9 PA C576 C9 PA C577 C6 02 C578 C9 PA C578 C9 C9 C578 C9 C57	DOP2 LDA JSR LDA JSR LDA ADC STA ADC STA ADC STA LDA STA LDA STA LDA STA LDA JSR DOP3 LDA JSR ADC STA LDA STA LDA STA CMP BNE LDA JSR CMP BNE LDA STA LDA JSR LDA STA LDA STA LDA STA LDA STA STA LDA STA STA STA STA STA STA STA STA STA ST	2 #35 PUT 2 #40 3 3 2 #0 3 2 #231 VOOP2 #191 2 #36 PUT 2 #36 PUT 2 #33 PUT 2 #40 2 #33 PUT 2 #33 PUT 2	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  ; joystick moveme; ; CSE7 A9 00 CSE9 85 06 CSEB A0 00 CSED A5 53 CSEF F0 01 CSF1 60 CSF2 AD 00 DC CSF3 AA CSF6 B0 OF CSF8 AE 46 03 CSFB E0 37	nt Joystick Duit Notup	BPL LDA RTS  = LDA STA LDY BEQ RTS LDSR BEQ BEC LDX STX INY BEC ST	* #0 DIR #0 ALREADFIRE DUIT  \$DC00 NOTUP YPOS #UPLIMIT NOTUP YPOS #1 DIR  NOTDOWN YPOS #2 DIR  NOTLEFT
C551 C6 02 C553 A9 23 C555 A5 02 C558 A5 02 C558 B5 02 C557 A5 03 C565 A5 02 C566 A5 02 C567 C9 E7 C569 D0 E8 C568 A9 BF C560 B5 02 C574 C6 02 C574 C6 02 C574 C6 02 C577 AD F3 C576 A5 02 C578 A9 21 C578 A9 21 C578 A9 21 C578 A9 21 C578 B9 A0 C588 B5 02 C588 B5 03 C589 C9 00 C586 B9 A0 C594 A9 14 C596 BD A0 C599 68 PU C599 68	DEC CMP BNE LDA SEC SBC SBC SBC SBC SBC SBC SBC SBC SBC SB	#1 YDIR,Y LOOP1 #9 FRNUM COUNT PICK #1 ODIR \$D41B #150 RAND 0.5,10,20,40,80,120,160  *#255 #<7027 2 #34 7027 2 #34 PUT 2 #40 VOOP2 2 #35 PUT 2 #40 YOOP2 #35 PUT 2 #40 YOOP2 #36 PUT 2 #40 YOOP3 2 #231 YOOP2 #191 2 #40 YOOP3 2 #33 #0 3 #0 3 #0 3 #3 #0 3 #0 3 #3 #0 3 #0 3 #3 #3 #0 90 #40 #40 #40 #40 #40 #40 #40 #40 #40 #4	CSDF 10 DO CSE1 A5 10 CSE3 8D 10 DO CSE6 60  : joystick moveme: ; joys	nt Joystick Duit Notup	BPL LDA RTS  = DA STA LDY LDA RTS  LDA RTS  EDA STA LDY LDSR RTS LDA LDSR LDA LDSR LDA LSR LDA LSR LDA LSR LDA LSR LDA LSR LDA LSR LSR LDA LSR LSR LDA LSR LSR LDA LSR LSR LDA LSR LSR LDA LSR	* #0 DIR * #0 ALREADFIRE DUIT *DC00 NOTUP YPOS #UPLIMIT NOTUP YPOS #1 DIR * * * * * * * * * * * * * * * * * * *

C621 D0 34		BNE	NOTLEFT	C6B6 85 OC		STA	FLOP
C623 48		PHA		C6B8 A9 40		LDA	#64
C624 A9 20		LDA	#32	C6BA 8D 04 D4		STA	\$D404
C626 20 9C C3		JSR	PUTIT	C6BD A5 06		LDA	DIR
C629 20 57 C3		JSR	SUBIT3	CGBL CD 83 CC		CMP	DIRSV
C62C 68		PLA	MOTI FFT	C6C2 FU U8	MUDID	BEU	OLDIK
C620 4C 57 C0	NOD1	JIVIP	VDOCH	C6C7 AQ AQ	אוטטות	DIA	#U
C622 DO 07	NUP	DNE	VL09U	COCY AS OU		STA	STEPCOLINT
C635 AF 3C 03		IDX	XPOS	C6CC FF 84 CC	OI DIR	INC	STEPCOUNT
C638 FO 19		CPX	#LEFTLIMIT — 30	C6CF AD 84 CC	OLD	LDA	STEPCOUNT
C63A F0 1B		BEQ	NOTLEFT	C6D2 18		CLC	
C63C 48	NOCHECK	PHA		C6D3 69 05		ADC	#5
C63D AD 3C 03		LDA	XP0S	C6D5 0A		ASL	
C640 38		SEC		C6D6 8D 01 D4		STA	\$D401
C641 E9 01		SBC	#1 Y000	C6D9 A9 41	STEPS	LUA	#65 *D404
C643 8D 3C 03		SIA	XPUS	CODE AS OC	NOTIOD	SIA	\$D404 ELOD
C640 E0 00		CDC	λΡU3Π #0	CODE AS OC	NUPLUP	LDX	DIR
C648 8D 50 03		SDC	YPOSH	C6F2 18		CLC	DIII
C64F C0 00		CPY	#0	C6F3 7D 14 C7		ADC	OFFTAB - 1.X
C650 D0 04		BNE	NOPE	C6E6 8D F8 07		STA	2040
C652 A9 03		LDA	#3	C6E9 86 3F	DONEDIR	STX	ODIR
C654 85 06		STA	DIR	C6EB 60		RTS	
C656 68	NOPE	PLA		C6EC AE 3C 03	CHECK	LDX	XPOS
C657 4A	NOTLEFT	LSR		C6EF E0 19		CPX	#LEFTLIMIT 30
C658 B0 3B		BCS	NOTRIGHT	C6F1 DU 1C		RNE	NED
COSA 20 EU UO		JSK	MECK	CEEE EO 27		CDV	#I IDI IMIT
COSD BO OF		DNE	NOPZ NOTDICHT	CGEQ DO 15		DNE	WEE
C661 48		PHA	Nomidin	C6FA AF 50 03		IDX	XPOSH
C662 A9 20		IDA	#32	C6FD D0 10		BNE	NE6
C664 20 9C C3		JSR	PUTIT	C6FF CE A7 02		DEC	LASERL
C667 20 46 C3		JSR	ADDIT	C702 D0 08		BNE	DUT
C66A 68		PLA		C704 AE A8 02		LDX	Laserh
C66B 4C 95 C6		JMP	NOTRIGHT	C707 8E A7 02		STX	LASERL
CEEE VE EU US	NOD2						
COOL AL 30 03	NUFZ	LUX	XPUSH	C70A A2 UU	DUT	LDX	#0
C671 FO 07	NUF2	BEQ	NOCHECK2	C70A A2 00 C70C 18	DUT	CLC	#U DETO
C671 F0 07 C673 AE 3C 03	NUFZ	BEQ LDX	NOCHECK2 XPOS	C70A A2 UU C70C 18 C70D 90 01	DUT	CLC BCC SEC	#U RET9
C671 F0 07 C673 AE 3C 03 C676 E0 37	NUFZ	BEQ LDX CPX BEO	NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT	C70A A2 00 C70C 18 C70D 90 01 C70F 38 C710 60	DUT NE6 RET9	LDX CLC BCC SEC RTS	#U RET9
C671 F0 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B	NOCHECK2	BEQ LDX CPX BEQ PHA	NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT	C70A A2 00 C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3	DUT NE6 RET9 STANDTAB	CLC BCC SEC RTS .BYT	#U RET9 204.207.211.213
C671 F0 03 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03	NOCHECK2	EDX BEQ LDX CPX BEQ PHA LDA	NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS	C70A A2 00 C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2	DUT NE6 RET9 STANDTAB OFFTAB	CLC BCC SEC RTS .BYT .BYT	RET9 204,207,211,213 205,208,210,212
C671 FO 07 C673 AE 3C 03 C676 EO 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18	NOCHECK2	EDX BEQ LDX CPX BEQ PHA LDA CLC	NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS	C70A A2 00 C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2	DUT NE6 RET9 STANDTAB OFFTAB	CLC BCC SEC RTS .BYT .BYT	#U RET9 204,207,211,213 205,208,210,212
C671 FO 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01	NOCHECK2	EDX BEQ LDX CPX BEQ PHA LDA CLC ADC	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1	C70A A2 00 C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 ; set up the scree	DUT NE6 RET9 STANDTAB OFFTAB	CLC BCC SEC RTS .BYT .BYT	RET9 204,207,211,213 205,208,210,212
C671 F0 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03	NOCHECK2	EDX BEQ LDX CPX BEQ PHA LDA CLC ADC STA	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS	C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 set up the scree	DUT NE6 RET9 STANDTAB OFFTAB	LDX CLC BCC SEC RTS .BYT .BYT	#U RET9 204,207,211,213 205,208,210,212
C671 F0 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 4B C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03	NOCHECK2	EDX BEQ LDX CPX BEQ PHA LDA CLC ADC STA LDA	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT  XPOS #1 XPOS XPOSH	C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree : : C719	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDX CLC BCC SEC RTS .BYT .BYT	RET9 204,207,211,213 205,208,210,212
C671 F0 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C684 AD 50 03 C687 69 00 00 C687 60 00 00 00 00 00 00 00 00 00 00 00 00	NOCHECK2	BEQ LDX CPX BEQ PHA LDA CLC ADC STA LDA ADC	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT  XPOS #1 XPOS XPOSH #0	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree : C719 C719 A9 93	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	CLC BCC SEC RTS .BYT .BYT	#0 RET9 204,207,211,213 205,208,210,212  #"{CLR}"
C671 FO 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C687 69 00 C689 69 00 00	NOCHECK2	BEQ LDX CPX BEQ PHA LDA CLC ADC STA ADC STA	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS XPOSH #0 XPOSH	C70C 18 C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree: : C719 C719 A9 93 C718 20 D6	DUT NE6 RET9 STANDTAB OFFTAB  THE STANDTAB OFFTAB THE STANDTAB	CLC BCC SEC RTS .BYT .BYT	#U RET9 204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0
C671 F0 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C687 69 00 C689 8D 50 03 C689 C0 00 C689 D0 04	NOCHECK2	BEQ LDX CPX BEQ PHA LDA CLC ADC STA LDA ADC STA CPY SNE	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS XPOSH #0 XPOSH #0 MOPF2	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree: C719 C719 A9 93 C718 20 D2 FF C71E A9 00 C720 8D 21 D0	DUT  NE6 RET9 STANDTAB OFFTAB en SCREENSET	CLC BCC SEC RTS BYT BYT  LDA JSR LDA STA	#U RET9 204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281
C671 F0 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C689 8D 50 03 C689 8D 50 03 C689 ED 004 C680 A9 04	NOCHECK2	BEQX CPX BEQ PHA LDA CLC ADC STA LDA ADC STA LDA CPY BNE LDA	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT  XPOS #1 XPOS XPOSH #0 NOPE2 #4	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree : C719 C719 A9 93 C718 A9 00 C720 8D 21 D0 C723 A9 0B	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	CLC BCC SEC RTS BYT BYT  LDA JSR LDA STA LDA	#0 RET9 204,207,211,213 205,208,210,212  - #"{CLR}" \$FFD2 #0 53281 #11
C671 F0 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 4B C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C684 AD 50 03 C689 8D 50 03 C689 BD 50 03 C686 C0 00 C686 D0 04 C692 85 06	NOCHECK2	BEQX CPX BEQ LDX BEQ CLC ADC STA LDA ADC STA CPY BNE LDA STA	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT  XPOS #1 XPOS XPOSH #0 NOPE2 #4 DIR	C70C 18 C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree : C719 C719 A9 93 C71B 20 D2 FF C71E A9 00 C720 8D 21 D0 C723 A9 0B C725 A9 D2 C728 D2 D0	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	CLC BCC SEC RTS .BYT .BYT  LDA JSR LDA STA LDA STA	#0 RET9 204,207,211,213 205,208,210,212  * #"{CLR}" \$FFD2 #0 53281 #11 53280
C671 FC 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C684 AD 50 03 C687 69 00 C689 8D 50 03 C686 C0 00 C680 A9 04 C690 A9 04 C690 A9 04 C692 85 06	NOCHECK2	BEQ PHA LDA CLC ADC STA ADC STA CPY BNE LDA STA CPY BNE LDA STA PLA	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #0 XPOSH #0 XPOSH #0 NOPE2 #4 DIR	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree : C719 C719 A9 93 C71B 20 D2 FF C71E A9 00 C720 8D 21 D0 C723 A9 08 C725 8D 20 D0 C728 A9 18	DUT NE6 RET9 STANDTAB OFFTAB OFFTAB SCREENSET	CLC BCC SEC RTS .BYT .BYT  LDA JSR LDA STA LDA LDA	#0 RET9 204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24
C671 F0 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C687 69 00 C689 8D 50 03 C689 69 00 C689 A9 04 C690 A9 04 C690 A9 04 C694 68	NOCHECK2  NOPE2 NOTRIGHT	BEQ PHA LDA CLC ADC STA ADC STA CPY BNE LDA CLC STA LDA ADC STA CPY BNE LDA STA PLA LSR	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS XPOSH #0 XPOSH #0 XPOSH #0 XPOSH #1 UNIVERSE #4 DIR	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree: C719 C719 A9 93 C718 A9 08 C720 A9 D2 C723 A9 0B C725 A9 1B C728 A9 18 C728 A9 18 C728 A9 18	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDX CLC BCC SEC RTS .BYT .BYT .BYT .BYT LDA JSR LDA STA LDA STA LDA STA	#0 RET9 204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP
C671 FC 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C687 69 00 C689 8D 50 03 C680 C0 00 C689 D0 04 C690 A9 04 C690 A9 04 C690 B0 04	NOCHECK2  NOCHECK2  NOPE2 NOTRIGHT	BEQ PHA LDC STA LDA ADC STA LDA ADC STA LDA ADC BNE LDA STA PLA LSR BCS	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #1 XPOS XPOSH #0 XPOSH #0 NOPE2 #4 DIR	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : :set up the scree : C719 C719 A9 93 C718 A9 00 C720 8D 21 D0 C723 A9 0B C725 8D 20 D0 C728 A9 18 C72A 95 10 C72C A9 69	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDX CLC BCC SEC RTS BYT BYT BYT LDA STA LDA STA LDA STA LDA	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9< td=""></line9<>
C671 FC 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C687 69 00 C689 8D 50 03 C680 C0 00 C689 BD 50 03 C680 C0 00 C680 D0 04 C692 85 06 C694 68 C695 4A C695 BD 04 C698 A9 01	NOCHECK2  NOPE2 NOTRIGHT	BEQX BEQX BEQ PHA LDC CADC STA ADCA CPY BNE LDA STA ALSR BCS LDA	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT  XPOS #1 XPOS XPOSH #0 NOPE2 #4 DIR  DONE1 #1	C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree : C719 C719 A9 93 C718 A9 93 C718 A9 93 C718 A9 00 C720 8D 21 D0 C723 A9 18 C724 85 10 C726 A9 69 C726 A9 69 C726 A9 69 C726 A9 67	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDX CLC BCC SEC RTS BYT BYT LDA JSR LDA STA LDA STA LDA LDA LDA LDA LDA LDA LDA	#U  RET9  204,207,211,213 205,208,210,212  *  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #="">LINE9</line9>
C671 FC 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 3C 03 C684 AD 3C 03 C687 69 00 C689 8D 50 03 C686 C0 00 C689 A9 04 C690 A9 01 C690 A9 01	NOCHECK2  NOPE2 NOTRIGHT	BEQX CPX BEQA PHA CLC ADC STA LDA STA PLA STA PLA STA STA	XPOSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #0 XPOSH #0 XPOSH #0 NOPE2 #4 DIR  DONE1 #1 FIREFLAG	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree : : C719 C719 A9 93 C718 A9 93 C718 A9 93 C718 A9 00 C720 8D 21 D0 C723 A9 0B C725 A9 0B C725 A9 18 C724 A5 10 C726 A9 69 C726 A9 C7 C730 20 1E AB	DUT NE6 RET9 STANDTAB OFFTAB OFFTAB SCREENSET	LDX CLC SEC RTS BYT BYT LDA JSR LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA	#0 RET9 204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 \$abie="" td="" temp<=""></line9>
C671 FO 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C684 AD 50 03 C689 8D 50 03 C689 C0 00 C689 BD 04 C690 A9 01	NOCHECK2  NOPE2 NOTRIGHT	BEQX BEQX BEQ PHA CLC ADC STA LDC STA CPY BNE LDA STA LDA STA LDA BNE LDA STA LDA BNE	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #1 XPOS XPOSH #0 XPOSH #0 DIR  DONE1 #1 FIREFLAG DIR	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree: C719 C719 A9 93 C718 20 D2 FF C71E A9 00 C720 A9 0B C723 A9 0B C725 BD 20 D0 C728 A9 18 C72A 85 10 C72C A9 69 C72E A0 C7 C730 20 1E AB C733 C6 10	DUT NE6 RET9 STANDTAB OFFTAB EN SCREENSET	LDX CLC SEC SEC RTS BYT LDA STA LDA STA LDA STA LDY JSR LDA STA LDY JSR CLDY JSR CLDY JSR CLDY JSR CLDY JSR CLDY JSR LDA STA LDA STA LDA STA STA STA STA STA STA STA STA STA ST	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}"  #FFD2 #0 #53281 #11 53280 #24 TEMP # <line9 #="">LINE9 \$AB1E TEMP FLOOP</line9>
C671 FC 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C687 69 00 C689 8D 50 03 C680 C0 00 C689 8D 50 03 C680 C0 00 C680 A9 04 C690 A9 04	NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX BEDX CPX BEDA CLC ADTA LDA CLC ADTA ADC STA BNE LDA LSR BCS LDA LDA LSR BCS LDA BLDA BLDA BLDA BLDA BLDA BLDA BLDA	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS XPOSH #0 XPOSH #0 XPOSH #0 DONE1 #1 FIREFLAG DIR NOTSTANDING OOIR	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree: C719 A9 93 C718 A9 03 C718 A9 01 C720 A9 02 C728 A9 18 C724 A9 18 C725 A9 C72C A9 69 C726 A9 16 C730 C9 16 C733 C6 10 C735 D0 F5 C737 A0 25	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDX CLC SEC RTS .BYT .BYT .BYT .BYT .BYT .BYT .BYT .BYT	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #37<="" \$ab1e="" floop="" td="" temp=""></line9>
C671 FC 07 C673 AE 3C 03 C676 E0 37 C678 F0 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C687 69 00 C689 8D 50 03 C680 C0 00 C689 BD 50 03 C680 C0 00 C689 BD 00 C690 A9 04 C690 A9 04 C690 A9 04 C690 A9 04 C690 B0 04	NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX BEQX CPX BEQA CPX BHA CCC STA ADC BNE ADC STA ADC BNE ADC STA ADC BNE BNE ADC BNE	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #1 XPOS XPOSH #0 XPOSH #0 XPOSH #0 INOPE2 #4 DIR  DONE1 #1 FIREFLAG DIR NOTSTANDING ODIR STANDTAB— 1, X	C70A A2 UU C70C 18 C70D 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree : Set up the SCREE : C719 A9 93 C718 A9 00 C720 8D 21 D0 C720 A9 08 C725 8D 20 D0 C728 A9 18 C72A 85 10 C72C A9 69 C72E A0 C7 C730 20 IE AB C733 C6 10 C735 D0 F5 C737 A0 25 C739 98	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDX CBCC SEC RTS .BYT LDA JSDA LDTA LDTA LDSTA LDA LDSTA LDS	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #37<="" \$ab1e="" floop="" td="" temp=""></line9>
C671 FC 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C684 AD 50 03 C687 69 00 C689 8D 50 03 C686 D0 04 C690 A9 04 C690 A9 04 C690 A9 04 C690 A9 01 C698 A9 01	NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX BEDX CPX BPHA CLC ASTA LDC ASTA LDC STA LDS STA LSC STA LSC STA LDR LDX LDS LDX LDS LDX LDS LDX LDS LDX LDS LDX LDS	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT  XPOS #1 XPOS  #1 XPOS XPOSH #0 NOPE2 #4 DIR  DONE1 #1 FIREFLAG DIR NOTSTANDING ODIR STANDTAB — 1, X 2040	C70A A2 UU C70F 38 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree; : C719 C719 A9 93 C718 A9 93 C718 A9 93 C718 A9 00 C720 8D 21 D0 C723 A9 18 C724 A5 10 C725 A9 69 C726 A0 C7 C730 20 1E AB C733 C6 10 C735 C9 69 C726 A9 69 C726 A0 C7 C730 20 1E AB C733 C6 15 C737 A0 25 C739 98 C734 99 BF 07	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDXC CBCC SEC RTS BYT  BASE LDS LDS LDS LDY JSR LDY	#U  RET9  204,207,211,213 205,208,210,212  *  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #37<="" \$ab1e="" floop="" td="" temp=""></line9>
C671 FO 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C684 AD 50 03 C689 BD 50 03 C680 A9 04 C690 A9 07 C688 BO 00 C694 A8 C695 AA C696 BO 04 C690 A9 01 C690	NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX CPX BEG	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #1 XPOS #0 XPOSH #0 XPOSH #0 DONE1 #1 FIREFLAG DIR DONE1 #1 FIREFLAG DIR STANDTAB—1,X 2040 DONEDIR	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree : C719 A9 93 C718 20 D2 FF C71E A9 00 C728 A9 18 C723 A9 0B C725 BD 20 D0 C728 A9 18 C720 85 10 C726 A9 69 C726 A9 69 C727 A0 25 C737 A0 25 C739 98 C73A 99 BF 07 C73D A9 01	DUT NE6 RET9 STANDTAB OFFTAB En SCREENSET	LDX CBCC SEC SEC SEC SEC SEC SEC SEC SEC SEC S	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #="">LINE9 \$AB1E TEMP FLOOP #37</line9>
C671 FD 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C684 AD 50 03 C689 8D 50 03 C680 C0 00 C689 BD 004 C690 A9 04 C690 A9 01 C690 A9 0	NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX CPX BEHA CADC STA LDAC STA	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #1 XPOS #0 XPOSH #0 XPOSH #0 DONE1 #1 FIREFLAG DIR DONE1 #1 STANDTAB—1,X 2040 DONEDIR FLOPTIMER	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree: C719 A9 93 C718 20 D2 FF C71E A9 00 C720 A9 D2 C723 A9 0B C725 BD 20 D0 C728 A9 18 C72A B5 10 C72C A9 69 C72E A0 C7 C73D 20 1E AB C733 C6 10 C735 D0 F5 C737 A0 25 C739 98 C738 A9 9 BF 07 C739 A9 01 C73F 99 BF DB	DUT NE6 RET9 STANDTAB OFFTAB EN SCREENSET FLOOP	LDXC CBCC SEC SEC RTST BYT  LDA JSR LDA STA LDA LDSR LDA LDSR LDA STA	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #="">LINE9 \$AB1E TEMP FLOOP #37  1983,Y #1 56255,Y</line9>
C671 FC 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67B AD 3C 03 C68E 09 01 C68B 8D 50 03 C68C C0 00 C689 BD 50 04 C690 A9 07 C69A B0 07 C69A B0 07 C68A BD 07 C6AS BD 10 C7 C6AS BD	NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX DEDX DEDX DEDX DEDX DEDX DEDX DEDX D	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #1 XPOS XPOSH #0 XPOSH #0 NOPE2 #4 DIR  DONE1 #1 FIREFLAG DIR NOTSTANDING ODIR STANDTAB—1,X 2040 DONEDIR FLOPTIMER NOFLOP	C70A A2 UU C70C 78 C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : :set up the scree: :C719 A9 93 C718 20 D2 FF C71E A9 00 C720 8D 21 D0 C728 A9 18 C720 8D 20 D0 C728 A9 18 C720 A9 69 C720 A9	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDXC CBCC SECS RTST BYT LDSR LDATA LDATA LDSTA L	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #1="" #1<="" #37="" \$ab1e="" 1983,y="" floop="" td="" temp=""></line9>
C671 FG 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 BD 3C 03 C684 AD 50 03 C684 AD 50 03 C687 69 00 C688 D0 04 C690 A9 04 C690 A9 04 C690 A9 01 C698 B0 00 C698 B0 01	NOCHECK2  NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX DEDX DEDX DEDX DEDX DEDX DEDX DEDX D	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #1 XPOS XPOSH #0 XPOSH #0 NOPE2 #4 DIR  DONE1 #1 FIREFLAG DIR NOTSTANDING ODIR STANDTAB—1,X 2040 DONEDIR FLOPTIMER NOFLOP #LOPPER BLODTIMER	C70A A2 UU C70C A3 C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : : set up the scree : set up the SCREE : C719 A9 93 C718 A9 00 C720 8D 21 D0 C720 8D 21 D0 C723 A9 0B C725 8D 20 D0 C728 A9 18 C72A 85 10 C72C A9 69 C72E A0 C7 C730 20 1E AB C72A 85 10 C72C A9 69 C72E A0 C7 C730 20 1E AB C733 C6 10 C735 D0 F5 C737 A0 25 C739 98 C73A 99 BF 07 C73B A9 01 C73F 99 BF D8 C73C 98 C73A 99 BF D7 C73B A9 01 C73F 98 BF D8 C742 C8 C743 C0 28	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET FLOOP	LDXC CBCC SEC SEC RTS BYT  LDSR LDST LDST LDST LDST LDST LDST LDST LDST	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #1="" #37="" \$ab1e="" 1983,y="" 56255,y<="" floop="" td="" temp=""></line9>
C671 FD 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 3C 03 C684 AD 00 C689 8D 50 03 C686 C0 00 C689 A9 04 C690 A9 07 C690 A9 09	NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX CPX BEG BLDX CPX BPHA CADC STA LDA CADC STA LDA STA LDA STA LDA STA LDA STA LDA STA STA STA STA STA STA STA STA	XPUSH NOCHECK2 XPOS #RIGHTLIMIT NOTRIGHT XPOS #1 XPOS #1 XPOS #0 XPOSH #0 XPOSH #0 XPOSH #0 DONE1 #1 FIREFLAG DIR DONE1 #1 FIREFLAG DIR STANDING ODIR STANDTAB — 1,X 2040 DONEDIR FLOPTIMER FLOPTIMER FLOPTIMER FLOPTIMER	C70A A2 UU C70C 18 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree : C719 C719 A9 93 C718 20 D2 FF C71E A9 00 C723 A9 0B C723 A9 0B C725 8D 20 D0 C728 A9 1B C725 8D 20 D0 C728 A9 1B C726 A9 69 C726 A0 C7 C730 20 1E AB C733 C6 10 C72C A9 69 C72E A0 C7 C730 20 1E AB C733 C6 10 C72C A9 69 C72E A0 C7 C73D 20 1E AB C733 P9 BF C735 P9 BF C735 P9 BF C737 A0 25	DUT NE6 RET9 STANDTAB OFFTAB en SCREENSET	LDXC CBCC SEC STST BYT  LDSR LDSR LDST LDSR LDY STA LDY SEC BNE LDY STA LDA STA LDY STA LDA STA LDY STA LDA STA LDY SEC BNE LDY STA LDA STA LDY STA LDA STA LDY SEC BNE LDY STA LDA STA LDY ST	#U  RET9  204,207,211,213 205,208,210,212  * #"{CLR}" \$FFD2 #0 53281 #11 53280 #24 TEMP # <line9 #="">LINE9 \$AB1E TEMP FLOOP #37  1983,Y #1 56255,Y #40 V7</line9>
C671 FD 07 C673 AE 3C 03 C676 E0 37 C678 FO 1B C67A 48 C67B AD 3C 03 C67E 18 C67F 69 01 C681 8D 3C 03 C684 AD 50 03 C684 AD 50 00 C689 BD 50 03 C680 A9 04 C690 A9 07 C684 BD 10 C7 C6A5 BD FB 07 C6A6 DO 36 C694 AB 07 C6A6 DO 37 C6A6 DO 39 C6B6 85 40 C6B6	NOCHECK2  NOPE2 NOTRIGHT  DONE1	LDX BEDX CPEQ BEHA CADC STA LDAC STA LD	NOTLEFT #32 PUTIT SUBIT3  NOTLEFT XPOSH NOCHECK XPOS #LEFTLIMIT — 30 NOTLEFT  XPOS  #1 XPOS #1 XPOSH #0 NOPE #3 DIR  NOTRIGHT CHECK NOP2 NOTRIGHT *32 PUTIT ADDIT  NOTRIGHT XPOSH *1 XP	C70A A2 UU C70C A8 C70D 90 01 C70F 38 C710 60 C711 CC CF D3 C715 CD D0 D2 : set up the scree: C719 C719 A9 93 C718 20 D2 FF C71E A9 00 C728 A9 0B C723 A9 0B C723 A9 0B C724 A9 C7 C720 A9 69 C726 A0 C7 C727 A0 25 C739 98 C73A A9 9B F 07 C73B A9 01 C73F 99 BF DB C742 C8 C745 D0 F2 C747 A2 13 C749 A9 A0	DUT NE6 RET9 STANDTAB OFFTAB En SCREENSET FLOOP V7	LDX CBCC SEC SEC SEC SEC SEC SEC SEC SEC SEC S	#U  RET9  204,207,211,213 205,208,210,212  #"{CLR}"  #FFD2 #0 #53281 #11 53280 #24 TEMP # <line9 #="">LINE9 #&gt;LINE9 #SAB1E TEMP FLOOP #37  1983,Y #1 56255,Y #40 V7 #19 #160</line9>

C74B 9D C0 07	STA	1984,X	C7F3 85 A9	STA	FLAG2
C74E A9 0A	LDA	#10	C7F5 20 17 C3	JSR	MAKESAFE
C750 9D C0 DB	STA	56256,X	C7F8 60	RTS	
C753 CA	DEX		C7F9 02 02 03 COLTAB	.BYT	2,2,3,4,13,6,7,11
C754 10 F3	BPL	CRP2	C801 CC D6 D6 PTRTAB	.BYT	204,214,214,214,21
C756 A2 18	LDX	#24			4,214,214,214
C758 AO 14	LDY	#20	C809 19 64 64 XPTAB	.BYT	25,100,100,100,100,
C75A 18	CLC				100,100,100
C75B 20 F0 FF	JSR	\$FFF0	C811 64 64 64 YPTAB	.BYT	100,100,100,100,10
C75E A9 70	LDA	# <scre< td=""><td>0011 01 01 01 11 11.15</td><td>.011</td><td>0,100,100,100</td></scre<>	0011 01 01 01 11 11.15	.011	0,100,100,100
C760 A0 C7	LDY	#>SCRE	C819 00 00 00 XPHTAB	.BYT	0,0,0,0,0,0,0,0
C762 20 1E AB	JSR	\$AB1E	C821 60	RTS	0,0,0,0,0,0,0
					0.00000000
C765 20 78 CD	JSR	SCOROUT	C822 00 00 00 SPRDAT	.BYT	0,0,0,0,0,0,0,60
C768 60 DUEN	RTS	* (001) (010) *	C82A 00 00 FF	.BYT	0,0,255,0,0,255,0,0
C769 1E 12 20 LINE9	.ASC	"{GRN}{RVS} " 13,0	C832 FF 00 00	.BYT	255,0,0,60,0,2,255,1
C76E 0D 00	.BYT	13,0			28
C770 9F 12 53 SCRE	.asc	"{CYN}{RVS}SCO	C83A 02 FF 80	.BYT	002,255,128,2,255,1
		RÈ{OFF} 0"			28,0,255
C77A 00	.BYT	0 ' '	C842 80 00 55	.BYT	128,0,85,128,0,255,
:					0.0
; set up sprites			C84A FF 00 00	.BYT	255,0,0,255,0,0,255,
					0
C77B SPRITE	=	*	C852 00 FF 00	.BYT	0,255,0,0,100,0,0,17
C77B AO OO	LDY	#0	0002 00 11 00	.011	0,200,0,0,100,0,0,1
C77D B9 22 C8 SPLOOP1	LDA	SPRDAT,Y	C85A 00 00 AA	.BYT	0,0,170,0,0,170,0,0
C780 99 00 33			C862 00 00 00		
	STA	13056,Y		.BYT	0,0,0,0,0,0,0,60
C783 B9 22 C9	LDA	SPRDAT + 256,Y	C86A 00 00 FF	.BYT	0,0,255,0,0,255,0,0
C786 99 00 34	STA	13056 + 256,Y	C872 FF 00 00	.BYT	255,0,0,60,0,2,255,1
C789 B9 22 CA	LDA	SPRDAT + 512,Y			28
C78C 99 00 35	STA	13056 + 512,Y	C87A 02 FF 80	.BYT	002,255,128,2,255,1
C78F 88	DEY				28,0,255
C790 D0 EB	BNE	SPL00P1	C882 80 00 55	.BYT	128,0,85,128,0,255,
C792 A9 FF	LDA	#255			0,0
C794 8D 15 D0	STA	53269	C88A FF 00 00	.BYT	255,0,0,255,0,0,175,
C797 A9 07	LDA	#7			0
C799 A8	TAY	•••	C892 00 AF 00	.BYT	0,175,0,0,10,0,0,10
C79A 38	SEC		C89A 00 00 0A	.BYT	0,0,10,0,0,10,0,0
C79B ED B2 02	SBC	NUMSPR	C8A2 00 00 00	.BYT	0,0,0,0,0,0,0,60
C79E 85 10	STA	TEMP	C8AA 00 00 FF	.BYT	0,0,255,0,0,255,0,0
C7A0 B9 F9 C7 SPLOOP2	LDA	COLTAB,Y	C8B2 FF 00 00	.BYT	255,0,0,60,0,2,255,1
C7A3 99 27 D0	STA	53287,Y			28
C7A6 B9 01 C8	LDA	PTRTAB, Y	C8BA 02 FF 80	.BYT	002,255,128,2,255,1
C7A9 99 F8 07	STA	2040,Y			28,2,255
C7AC AD 01 C8	LDA	PTRTAB	C8C2 00 02 55	.BYT	0,2,85,0,0,255,0,0
C7AF 8D F8 07	STA	2040	C8CA FF 00 00	.BYT	255,0,0,255,0,0,250,
C7B2 B9 09 C8	LDA	XPTAB,Y			0
C7B5 99 3C 03	STA	XPOS,Y	C8D2 00 FA 00	.BYT	0,250,0,0,160,0,0,16
C7B8 AD 09 C8	LDA	XPTAB			0
C7BB 8D 3C 03	STA	XPOS	C8DA 00 00 A0	.BYT	0,0,160,0,0,160,0,0
C7BE B9 11 C8	LDA	YPTAB,Y	C8E2 00 00 00	.BYT	0,0,0,0,0,0,0,60
C7C1 99 46 03	STA	YPOS.Y	C8EA 00 00 FF	.BYT	0,0,255,0,0,235,0,0
C7C4 AD 11 C8	LDA	YPTAB	C8F2 FF 00 00	.BYT	255,0,0,60,0,2,255,1
		YPOS	001211 00 00	.011	28
C7C7 8D 46 03	STA		00FA 00 FF 00	.BYT	
C7CA B9 19 C8	LDA	XPHTAB,Y	C8FA 02 FF 80	.011	002,255,128,1,255,1
C7CD 99 50 03	STA	XPOSH,Y		D) (T	28,1,255
C7D0 A9 00	LDA	#0	C902 80 00 55	.BYT	128,0,85,128,0,255,
C7D2 8D 50 03	STA	XPOSH			128,0
C7D5 A9 00	LDA	#0	C90A FF 00 00	.BYT	255,0,0,255,0,0,255,
C7D7 99 96 03	STA	SPOTTER,Y			0
C7DA 8D 96 03	STA	SPOTTER	C912 00 FF 00 SPRDAT2	.BYT	0,255,0,0,170,0,0,17
C7DD 88	DEY				0
C7DE C4 10	CPY	TEMP	C91A 00 00 AA	.BYT	0,0,170,0,0,170,0,0
C7E0 D0 BE	BNE	SPLOOP2	C922 00 00 00	.BYT	0,0,0,0,0,0,0,60
C7E2 A9 FF	LDA	#255	C92A 00 00 FF	BYT	0,0,255,0,0,235,0,0
C7E4 8D 1C D0	STA	53276	C932 FF 00 00	BYT	255,0,0,60,0,2,255,1
C7E7 A9 07	LDA	#7	3332 11 00 00		28
C7E9 8D 25 D0	STA	53285	C93A 02 FF 80	.BYT	002,255,128,1,255,1
C7EC A9 06	LDA	#6	330N 02 11 00	.011	28,1,255
C7EE 8D 26 D0	STA	53286	C942 80 00 55	.BYT	128,0,85,128,0,255,
		#26	007E 00 00 JJ	ווט.	0.0
C7F1 A9 1A	LDA	πΔυ			0,0

C94A FF 00 00	.BYT	255,0,0,255,0,0,255,	; . ,		
		0	; redefine characters		
C952 00 AF 00	.BYT	0,175,0,0,10,0,0,10	<b>:</b>		
C95A 00 00 0A	.BYT	0,0,10,0,0,10,0,0	CAE2 CHAR	=	•
C962 00 00 00	.BYT	0,0,0,0,0,0,60	CAE2 78	SEI	
C96A 00 00 FF	.BYT	0,0,255,0,0,235,0,0	CAE3 A9 33	LDA	#51
C972 FF 00 00	.BYT	255,0,0,60,0,2,255,1	CAE5 85 01	STA	1
		28	CAE7 A9 00	LDA	#<14336
C97A 02 FF 80	.BYT	002,255,128,2,255,1	CAE9 85 02	STA	2
00171 02 11 00	.5	28,2,255	CAEB A9 38	LDA	#>14336
C982 80 01 55	.BYT	128,1,85,0,1,255,0,0	CAED 85 03	STA	3
C98A FF 00 00	.BYT	255,0,0,255,0,0,255,	CAEF A9 00	LDA	#<53248
C90A FF 00 00	.D11				4
0000 00 51 00	D)/T	0	CAF1 85 04	STA	•
C992 00 FA 00	.BYT	0,250,0,0,160,0,0,16	CAF3 A9 D0	LDA	#>53248
		0	CAF5 85 05	STA	5
C99A 00 00 A0	.BYT	0,0,160,0,0,160,0,0	CAF7 A2 08	LDX	#8
C9A2 00 00 00	.BYT	0,0,0,0,0,0,0,240	CAF9 A0 00	LDY	#0
C9AA 00 00 FC	.BYT	0,0,252,0,0,188,0,0	CAFB B1 04 CHARLOOP	LDA	(4),Y
C9B2 FC 00 00	.BYT	252,0,0,60,0,0,251,0	CAFD 91 02	STA	(2),Y
C9BA 14 FA 00	.BYT	020,250,0,6,254,128	CAFF 88	DEY	
		,0,255	CB00 D0 F9	BNE	CHARLOOP
C9C2 80 00 56	.BYT	128,0,86,0,0,248,0,0	CB02 E6 05	INC	5
C9CA FF 00 03	.BYT	255,0,3,207,0,15,15,	CB04 E6 03	INC	3
030A 11 00 03	.011	0	CB06 CA	DEX	•
0000 00 00 00	.BYT	•		BNE	CHARLOOP
C9D2 0C 0F 00		012,15,0,8,3,168,8,0	CB07 D0 F2		
C9DA 08 08 00	.BYT	008,8,0,8,40,0,0,255	CB09 A9 37	LDA	#55
C9E2 00 00 00	.BYT	0,0,0,0,0,0,0,240	CB0B 85 01	STA	1
C9EA 00 00 FC	.BYT	0,0,252,0,0,188,0,0	CB0D A9 1E	LDA	#30
C9F2 FC 00 00	.BYT	252,0,0,60,0,0,251,0	CB0F 8D 18 D0	STA	53272
C9FA 00 FB 00	.BYT	0,251,0,2,171,0,0,25	CB12 A0 3F	LDY	#63
		5	CB14 B9 1F CB CHARL2	LDA	CHARDATA, Y
CA02 00 00 54	SPRDAT3 .BYT	0,0,84,0,0,252,0,0	CB17 99 08 39	STA	14336 + 264,Y
CA0A FC 00 00	.BYT	252,0,0,60,0,0,60,0	CB1A 88	DEY	
CA12 00 3C 00	.BYT	0.60.0.0.40.0.0.40	CB1B 10 F7	BPL	CHARL2
CA1A 00 00 28	.BYT	0,0,40,0,0,168,0,255	CB1D 58	CLI	OTTAILL
				RTS	
CA22 00 00 00	.BYT	0,0,0,0,0,0,0,15	CB1E 60		100 100 010 001 00
CA2A 00 00 3F	.BYT	0,0,63,0,0,62,0,0	CB1F 80 C0 D8 CHARDATA	.BYT	128,192,216,231,23
CA32 3F 00 00	.BYT	063,0,0,60,0,0,239,0			1,216,192,128
CA3A 00 AF 20	.BYT	0,175,32,2,191,128,	CB27 FF 7E 18	.BYT	255,126,24,36,36,24
		2,255			,24,24
CA42 00 00 95	.BYT	0,0,149,0,0,39,0,0	CB2F 01 03 1B	.BYT	1,3,27,231,231,27,3,
CA4A F5 00 00	.BYT	245,0,0,243,192,0,2			1
		40,240	CB37 18 18 18	.BYT	24,24,24,36,36,24,1
CA52 00 F0 30	.BYT	0,240,48,42,192,32,			26,255
		32,0	CB3F 7F 3F 2A	.BYT	127,63,42,31,21,15,
CA5A 20 20 00	.BYT	032,32,0,32,0,0,40,2	050. 1. 0. 2.		10.7
ONON 20 20 00	.011	55	CB47 FF FF A5	.BYT	255,255,165,255,82,
CA62 00 00 00	.BYT		0047 11 11 A3	.011	
CA6A 00 00 3F	.BYT	0,0,0,0,0,0,0,15	OD4E E0 E0 E0	DVT	255,165,255
		0,0,63,0,0,62,0,0	CB4F F8 F0 50	.BYT	248,240,80,224,160,
CA72 3F 00 00	.BYT	063,0,0,60,0,0,239,0	0057 40 44 40	D) /T	192,64,128
CA7A 00 EF 14		0,239,20,0,234,144,			
	.BYT		CB57 1C 14 1D	.BYT	28,20,29,63,92,60,2
0.00 00 00 45		0,255	CB37 TC 14 TD	.BYI	26,20,29,63,92,60,2 0,54
CA82 00 00 15	.BYT	0,255 0,0,21,0,0,63,0,0	;	.BYI	
CA8A 3F 00 00	.BYT .BYT	0,255	; ; collision subroutine	.BYI	
	.BYT	0,255 0,0,21,0,0,63,0,0	;	.BYI	
CA8A 3F 00 00	.BYT .BYT	0,255 0,0,21,0,0,63,0,0 063,0,0,60,0,0,60,0	; ; collision subroutine	.BYI	
CA8A 3F 00 00 CA92 00 3C 00	.BYT .BYT .BYT	0,255 0,0,21,0,0,63,0,0 063,0,0,60,0,0,60,0 0,60,0,0,40,0,0,40 0,0,40,0,0,42,0,255	; collision subroutine ; CB5F COLLISION	555	0,54
CA8A 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00	.BYT .BYT .BYT .BYT .BYT	0,255 0,0,21,0,0,63,0,0 063,0,0,60,0,0,60,0 0,60,0,0,40,0,0,40 0,0,40,0,0,42,0,255 0,0,0,0,0,0,0,0	; collision subroutine ; CB5F COLLISION CB5F AD 1E D0	== LDA	0,54 * 53278
CA8A 3F 00 00 CA92 00 3C 00 CA9A 00 00 28	.BYT .BYT .BYT .BYT	0,255 0,0,21,0,0,63,0,0 063,0,60,0,0,60,0 0,60,0,0,40,0,0,40 0,0,40,0,4	: collision subroutine : CB5F COLLISION CB5F AD 1E DO CB62 29 01	== LDA AND	0,54 * 53278 #1
CA8A 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00 CAAA 00 00 AA	.BYT .BYT .BYT .BYT .BYT	0,255 0,0,21,0,0,63,0,0 063,0,0,60,0,0,60,0 0,60,0,0,40,0,0,40 0,0,40,0,0,42,0,255 0,0,0,0,0,0,0,0 0,0,170,0,2,170,128,	; collision subroutine ; CB5F COLLISION CB5F AD 1E DO CB62 29 01 CB64 F0 65	LDA AND BEQ	0,54 * 53278 #1 HOME
CA8A 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00	.BYT .BYT .BYT .BYT .BYT	0,255 0,021,00,63,0,0 063,0,60,0,0,60,0 0,60,0,40,0,0,40 0,0,40,0,0,42,0,255 0,0,0,0,0,0,0 0,0,170,0,2,170,128, 10 090,160,9,90,160,41	; collision subroutine; CB5F COLLISION CB5F AD 1E D0 CB62 29 01 CB64 F0 65 CB66 A2 07	LDA AND BEQ LDX	0,54 53278 #1 HOME #7
CABA 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00 CAAA 00 00 AA CAB2 5A AO 09	.BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,63,0,0 063,0,0,60,0,0,60,0 0,60,0,0,40,0,0,40 0,0,0,0,0,0,0 0,0,0,0,0,	; collision subroutine ; C85F COLLISION C85F AD 1E D0 C862 29 01 C864 F0 65 C866 A2 07 C868 A9 FF	LDA AND BEQ LDX LDA	0,54 53278 #1 HOME #7 #255
CA8A 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00 CAAA 00 00 AA	.BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,063,0,0 063,0,060,0,060,0 0,60,0,40,0,0,40 0,040,0,0,42,0,255 0,0,0,00,0,0,0 0,0170,0,2,170,128, 10 090,160,9,90,160,41 ,105,168 041,170,168,42,170,	: collision subroutine : CBSF COLLISION CBSF AD 1E DO CB62 29 01 CB64 F0 65 CB66 A2 07 CB68 A9 FF CB6A 85 10	LDA AND BEQ LDX LDA STA	0,54 * 53278 #1 HOME #7 #255 TEMP
CA8A 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAAA 00 00 00 CAAA 00 00 AA CAB2 5A AO 09 CABA 29 AA A8	.BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,00,63,0,0 063,0,60,0,0,60,0 0,60,0,40,0,0,40 0,0,40,0,0,42,0,255 0,0,0,0,0,0,0 0,0,170,0,2,170,128, 10 090,160,9,90,160,41 1,05,168 041,170,168,42,170, 168,42,170	; collision subroutine ; CB5F COLLISION CB5F AD 1E DO CB62 29 01 CB64 FO 65 CB66 A2 07 CB68 A9 FF CB6A 85 10 CB6C A9 09	LDA AND BEQ LDX LDA STA LDA	• 53278 #1 HOME #7 #255 TEMP #9
CABA 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00 CAAA 00 00 AA CAB2 5A AO 09	.BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,063,0,0 063,0,050,0,060,0 0,60,0,0,40,0,40 0,0,0,0,0,0 0,0,0,0,0,0 0,0,170,0,2,170,128, 10 105,168 041,170,168,42,170 168,42,170 168,42,170	; collision subroutine ; C85F COLLISION C85F AD 1E D0 C862 29 01 C864 F0 65 C866 A2 07 C868 A9 FF C86A 85 10 C86C A9 09 C86E A9 09	LDA AND BEQ LDX LDA STA LDA STA	0,54 53278 #1 HOME #7 #255 TEMP #9 SPRNUM
CABA 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00 CAAA 00 00 AA CAB2 5A AO 09 CABA 29 AA A8 CAC2 A8 2A AA	.BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,63,0,0 063,0,660,0,060,0 0,60,0,0,40,0,0,40 0,0,0,0,0,0 0,0,0,0,0,0 0,0,170,0,2,170,128, 10 090,160,9,90,160,41 ,106,168 041,170,168,42,170, 168,42,170	: collision subroutine : C85F	LDA AND BEQ LDX LDA STA LDA STA LDA	0,54  53278 #1 HOME #7 #255 TEMP #9 SPRNUM SPOTTER,X
CA8A 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAAA 00 00 00 CAAA 00 00 AA CAB2 5A AO 09 CABA 29 AA A8	.BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,063,0,0 063,0,60,0,060,0 0,60,0,40,0,0,40 0,040,0,42,0,255 0,0,0,0,0,0,0 0,170,0,2,170,128, 10 090,160,9,90,160,41 ,105,168 041,170,168,42,170, 168,42,170 168,42,170 168,42,170 168,42,170,168,42,1 70,168,42	; collision subroutine;; CBSF COLLISION CBSF AD 1E DO CB62 29 01 CB64 F0 65 CB66 A2 07 CB68 A9 FF CB6A 85 10 CB6C A9 09 CB6E 85 A4 CB70 BD 96 03 COLLOOP CB73 DO 39	LDA AND BEQ LDX LDA STA LDA STA LDA BNE	0,54  53278  #1  HOME  #7  #255  TEMP  #9  SPRNUM  SPOTTER,X  NOTREC
CABA 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00 CAAA 00 00 AA CAB2 5A A0 09 CABA 29 AA A8 CAC2 A8 2A AA CACA AA A8 0A	.BYT .BYT .BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,063,0,0 063,0,050,0,060,0 0,60,0,0,40,0,40 0,0,0,0,0,0,0 0,0,0,0,0,0,0 0,0,170,0,2,170,128, 10 990,160,9,90,160,41 1,05,168 041,170,168,42,170 168,42,170 168,42,170 168,42,170,168,42,1 70,168,42 170,168,10,170,160,	; collision subroutine ; C85F COLLISION C85F AD 1E D0 C862 29 01 C864 F0 65 C866 A2 07 C868 A9 FF C86A 85 10 C86C A9 09 C86C A9 09 C86C A9 09 C86C A9 03 C875 A0 50 03	LDA AND BEQ LDX LDA STA LDA STA LDA BNE LDA	0,54  53278 #1 HOME #7 #255 TEMP #9 SPRNUM SPOTTER,X NOTREC XPOSH
CABA 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00 CAAA 00 00 AA CAB2 5A AO 09 CABA 29 AA A8 CAC2 A8 2A AA	.BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,063,0,0 063,0,60,0,060,0 0,60,0,40,0,0,40 0,040,0,42,0,255 0,0,0,0,0,0,0 0,170,0,2,170,128, 10 090,160,9,90,160,41 ,105,168 041,170,168,42,170, 168,42,170 168,42,170 168,42,170 168,42,170,168,42,1 70,168,42	: collision subroutine : collision subroutine : collision subroutine : collision CB5F AD 1E D0 CB62 29 01 CB64 F0 65 CB66 A2 07 CB68 A9 FF CB6A 85 10 CB6C A9 09 CB6E 85 A4 CB70 BD 96 03 CDLOOP CB73 AD 50 03 CB75 AD 50 03 CB78 DD 50 03	LDA AND BEQ LDX LDA STA LDA STA LDA LDA ENE LDA CMP	0,54  53278  #1  HOME  #7  #255  TEMP  #9  SPRNUM  SPOTTER,X  NOTREC
CABA 3F 00 00 CA92 00 3C 00 CA9A 00 00 02 CAA2 00 00 00 CAAA 00 00 AA CAB2 5A AO 09 CABA 29 AA A8 CAC2 A8 2A AA CACA AA A8 0A CAD2 02 AA 80	.BYT .BYT .BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,063,0,0 063,0,060,0,060,0 0,60,0,0,40,0,0,40 0,040,0,0,42,0,255 0,0,0,00,0,0,0 0,0,170,0,2,170,128, 10 090,160,9,90,160,41 ,108,168 041,170,168,42,170, 168,42,170 168,42,170,168,42,1 70,168,10,170,160, 10,170,160,00 002,170,128,0,170,0	; collision subroutine ; C85F COLLISION C85F AD 1E D0 C862 29 01 C864 F0 65 C866 A2 07 C868 A9 FF C86A 85 10 C86C A9 09 C86C A9 09 C86C A9 09 C86C A9 03 C875 A0 50 03	LDA AND BEQ LDX LDA STA LDA STA LDA BNE LDA	0,54  53278 #1 HOME #7 #255 TEMP #9 SPRNUM SPOTTER,X NOTREC XPOSH
CABA 3F 00 00 CA92 00 3C 00 CA9A 00 00 28 CAA2 00 00 00 CAAA 00 00 AA CAB2 5A A0 09 CABA 29 AA A8 CAC2 A8 2A AA CACA AA A8 0A	.BYT .BYT .BYT .BYT .BYT .BYT .BYT .BYT	0,255 0,021,0,063,0,0 063,0,060,0,060,0 0,60,0,0,40,0,0,40 0,0,0,0,0,0 0,0,0,0,0,0 0,0,170,0,2,170,128, 10 105,168 041,170,168,42,170, 168,42,170 168,42,170,168,42,1 70,168,42 170,168,10,170,160, 10,170,160	: collision subroutine : collision subroutine : collision subroutine : collision CB5F AD 1E D0 CB62 29 01 CB64 F0 65 CB66 A2 07 CB68 A9 FF CB6A 85 10 CB6C A9 09 CB6E 85 A4 CB70 BD 96 03 CDLOOP CB73 AD 50 03 CB75 AD 50 03 CB78 DD 50 03	LDA AND BEQ LDX LDA STA LDA STA LDA LDA ENE LDA CMP	0,54  53278 #1 HOME #7 #255 TEMP #9 SPRNUM SPOTTER,X NOTREC XPOSH XPOSH,X

CB80 38		SEC		CC15 AD OF CC17 18 CC18 20 FO FF CC18 A9 20 CC1B A9 20 CC1B A9 CC22 A9 OF CC22 A9 CC24 A0 DD CC26 A9 A9 CC31 A0 GC34 A0 FD CC36 A9 CC37 AD AC CC38 A9 CC39 A0 CC38 A0 A0		LDY	#15
CB81 FD 3C 03		SBC	XPOS,X	CC17 18		CLC	
CB84 10 05		BPL	PLUS	CC18 20 F0 FF		JSR	\$FFF0
CD00 49 FF		EUK	#200	CC1D 8D E0 07		LUA	#32
CD00 10 CB80 60 01		ADC	ш1	CC1D 8D EU U/		SIA	4 -MECC2
CRAR CO OF	PLLIC	CMP	#15	CC20 A9 UF		LDA	# <necc3< td=""></necc3<>
CB8D B0 1F	FLUS	BCS	NOTREC	CC24 20 1F AR		ICR	#>IVIE333 \$AR1F
CB8F 85 A5		STA	TEMP2	CC27 AD 00 DC	WIIT	I DA	&DC00
CB91 AD 46 03		LDA	YPOS	CC2A 29 10	****	AND	#16
CB94 38		SEC	••	CC2C D0 F9		BNE	WUT
CB95 FD 46 03		SBC	YPOS,X	CC2E 4C 05 C0		JMP	START
CB98 10 05		BPL	PLUS2	CC31 A0 64	DELAY	LDY	#100
CB9A 49 FF		EOR	#255	CC33 88	V2	DEY	
CB9C 18		CLC		CC34 D0 FD		BNE	V2
CRAD DA DI	DILLICO	ADC	#1	CC36 60		RIS	
CD3F C3 UF	PLU32	DCC	#10 NOTDEC	i ann if tauching f	orbiddon zono		
CRAS 18		CLC	NUTREC	, see ii touching i	orbidueri zorie		
CBA4 65 A5		ADC	TEMP2	CC37	FORRIDDEN	_	*
CBA6 C5 10		CMP	TEMP	CC37 A5 A9	TOTOLOGEN	I DA	FLAG2
CBA8 B0 04		BCS	NOTREC	CC39 0A		ASL	, c. iac
CBAA 85 10		STA	TEMP	CC3A OA		ASL	
CBAC 86 A4		STX	SPRNUM	CC3B 0A		ASL	
CBAE CA	NOTREC	DEX		CC3C 18		CLC	
CBAF DO BF		BNE	COLLOOP	CC3D 69 17		ADC	#23
CBB1 A6 A4		LDX	SPRNUM	CC3F CD 46 03		CMP	YPOS
CDD3 EU U9		DEU	#9 HOME	CC44 AD 50 03		BCS	NOIHII
CRR7 AQ 02		I DA	HOIVIE	CC44 AD 30 U3		DNE	MOTUIT
CBB9 9D 96 03		STA	SPOTTER X	CC49 AD 3C 03		LUV	YPOS
CBBC 86 A6		STX	SPRNUM2	CC4C C9 2A		CMP	#I FFTI IMIT — 13
CBBE E4 A7		CPX	GOODNUM	CC4E BO 03		BCS	NOTHIT
CBC0 D0 0A		BNE	DEADDUCK	CC50 4C CC CB		JMP	DEADDUCK
CBC2 BD 27 D0		LDA	53287,X	CC53 60	NOTHIT	RTS	
CBC5 29 0F		AND	#15	; sound routines			
CBC7 C9 01		CMP	#1	1			_
CBC9 D0 01	110145	BNE	DEADDUCK	CC54 A2 00	SETSID	LDX	#0
CDCD DU	HOME	HI2	μE	CC57 0D 00 D4	CI DCID	CTA	&D 400 V
CRCE 85 10	DEADDOCK	CTA	#3 TEMP	CC37 9D 00 D4	CENSID	INIV	<b>Φ</b> D400,X
CBD0 A9 14		IDA	#20	CC5R FO 1A		CDX	#26
CBD2 8D 0B D4		STA	\$D40B	CC5D DO F8		BNE	CLRSID
CBD5 A9 00		LDA	#0	CC5F A9 14		LDA	#20
CBD7 8D 08 D4		STA	\$D408	CC61 8D 01 D4		STA	\$D401
CBDA A9 OA		LDA	#10	CC64 A9 42		LDA	#66
CBDC 8D 0C D4		STA	\$D40C	CC66 8D 05 D4		STA	\$D405
CBUF A9 15	•	LUA	#21 ep.400	CC69 A9 U8		LDA	#8
CBE1 6D 05 D4		SIA	\$D40B	CC6E AO OS		SIA	\$D403
CREG AC 1R D4	DEADLOOP	LDX	\$D41B	CC70 8D 0C D4		STA	\$D40C
CBE9 A9 00	DEADLOOI	LDA	#0	CC73 A9 05		I DA	#5
CBEB 99 00 33		STA	13056.Y	CC75 8D 0A D4		STA	\$D40A
CBEE 99 00 34		STA	13312,Y	CC78 A9 FF		LDA	#255
CBF1 8E 08 D4		STX	\$D408	CC7A 8D 0F D4		STA	\$D40F
CBF4 99 80 34		STA	13696 — 256,Y	CC7D A9 OF		LDA	#15
CBF7 20 31 CC		JSR	DELAY	CC7F 8D 18 D4		STA	\$D418
CBFA CA		DEX	DEADLOOD	0082 60	DIDOM	RIS	•
CRED OF 10		DEC	TEMP	CC84 00	CTEDCOLINIT	DVT	0
CRFF DO F5		RNF	DEADI OOP		SIEFOUUNI	.011	v
CC01 68		PLA	DENDLOOI	do that timer this	na		
CC02 68		PLA		;			
CC03 20 CA CC		JSR	LASERED	CC85	TIMER	=	*
CC06 CE B3 02		DEC	NUMMEN	CC85 CE AA 02		DEC	FLAG2LOW
CC09 F0 03		BEQ	FINISHED	CC88 D0 1A		BNE	GETOUT
CCOB 4C B8 CO	E13.1101 : 22	JMP	BUCK	CC8A A9 32		LDA	#50
CCUE A9 00	HINISHED	LUA	#U	CC8C 8D AA 02		SIA	FLAGZLUW
CC12 A2 00		SIA	23209 #11	CC01 C0 1A		CNID	FLAUZ #26
OU IS AZ UB		LUX	#11	COSTOSTA		CIVIP	#40

CC93 F0 OF		BEQ	GETOUT	CD6D 10 FA		BPL	UY
CC95 C6 A9		DEC	FLAG2	CD6F A9 00		LDA	#0
CC97 10 06		BPL	OKEY	CD71 AA	NTO	TAX	,, <del>,</del>
CC99 A9 00		LDA	#0	CD72 A9 20		LDA	#32
CC9B 85 A9		STA	FLAG2	CD74 9D C0 07		STA	1984,X
CC9D F0 05		BEQ	GETOUT	CD77 60	QUOT	RTS	
CC9F A0 07	OKEY	LDY	#7	CD78 A2 18	SCOROUT	LDX	#24
CCA1 20 A5 CC		JSR	FUT	CD7A AO 1A		LDY	#26
CCA4 60	GETOUT	RTS		CD7C 18		CLC	
CCA5 84 10	FUT	STY	TEMP	CD7D 20 F0 FF		JSR	\$FFF0
CCA7 A8		TAY		CD80 AD BA 02		LDA	SCOREH
CCA8 A9 D8		LDA	#<(55296 <del>- 4</del> 0)	CD83 C9 FF		CMP	#\$FF
CCAA 85 02		STA	2	CD85 F0 07		BEQ	TP
CCAC A9 D7		LDA	#>(55296 — 40)	CD87 AE B9 02		LDX	SCOREL
CCAE 85 03	TROOP	STA	3 2	CD8A 20 CD BD		JSR	\$BDCD
CCB0 A5 02 CCB2 18	INOUP	LDA	2	CD8D 60	TP	rts LDA	# <mess8< td=""></mess8<>
CCB3 69 28		CLC ADC	#40	CD8E A9 98 CD90 A0 CD	ir	LDY	# <iviess8< td=""></iviess8<>
CCB5 05 26 CCB5 85 02		STA	2	CD92 20 1E AB		JSR	\$AB1E
CCB7 A5 03		LDA	3	CD95 68		PLA	<b>WADIL</b>
CCB9 69 00		ADC	#0	CD96 68		PLA	
CCBB 85 03		STA	3	CD97 60		RTS	
CCBD 88		DEY	•	CD98 93 11 11	MESS8	ASC	"{CLR}{3 DOWN
CCBE DO FO		BNE	TROOP				"{CLR}{3 DOWN } CONGRATULATIO
CCC0 A5 10		LDA	TEMP				ŃS, YOU ARE ON
CCC2 AO 02		LDY	#2				E OF THE FEW "
CCC4 91 02	HHH	STA	(2),Y	CDC5 54 4F 20		.ASC	"TO WIN AT LASE
CCC6 88		DEY					r beam."
CCC7 10 FB		BPL	HHH	CDDA 00		.BYT	0
CCC9 60		RTS					
CCCA A9 01	LASERED	LDA	#1				
CCCC 8D B4 02		STA	IGNORE				
CCCF 20 48 C1		JSR	SH00T				
CCD2 A5 A2	WITH	LDA	162				
CCD4 C5 A2	WTY	CMP BEQ	162 WTY				
CCD6 F0 FC							
CCD8 A5 0A CCDA D0 EE		LDA BNE	Fireflag Lasered				
CCDC 60		RTS	LAGLILD				
CCDD 9E 92 4C	MESS1	.ASC	"{YEL}{0				
000000000000000000000000000000000000000			FF}L A S E R"				
CCE8 00		.BYT	0				
	MESS2	.ASC	"BEAM[<3>]{3 DO				
			WN}{7 LEFT}LEVE				
			L {3 DOWN} {10 LE FT}"				
CD0F 12 9F 48	MESS3	.ASC	"{RVS}{CYN}HIT FI				
			REBUTTON"			-	
CD1F 00	145004	.BYT	0				
CD20 9E 4C 45	MESS4	.ASC	"{YEL}LEVEL COM				
			PLETED {2 DOWN} {				
CD44 00		DVT	12 LEFT BONUS * `				
CD44 00 CD45 AD B7 02	BONUS	.byt Lda	•				
CD48 FO 2D	DUNUS	BEQ	VOUNT				
CD40 10 25 CD4A CE B6 02		DEC	QUOT VOUNTL				
CD4D D0 28		BNE	QUOT				
CD4F CE B8 02		DEC	VOUNTH				
CD52 D0 23		BNE	QUOT				
CD54 A2 03		LDX	#3				
CD56 8E B8 02		STX	VOUNTH				
CD59 CE B7 02		DEC	VOUNT				
CD5C AD B7 02		LDA	VOUNT				
CD5F D0 10		BNE	NTO				
CD61 A9 18		LDA	#24				
CD63 85 A9		STA	FLAG2				
CD65 A9 01		LDA	#1				
CD67 A2 06	IIV	LDX	#6				
CD69 9D 28 D0 CD6C CA	UI	STA Dex	53288,X				
3000 UA		DLA					

# Whirlybird Source Code

Source code by Philip I. Nelson

; current egg position		251 253 2049	0862 85 FC		STA	252
0801 EGG	=	251	0864 A9 00		LDA	#0
; coord for egg color			0866 85 FD		STA	253
0801 EGCOL	-	253	0868 A9 38		LDA	#\$38
;			086A 85 FE		STA	254
; load & run like basic			086C A0 00		LDY	#0
•			086E B1 FB	COPY	LDA	(251),Y
0801	*=	2049	0870 91 FD		CTV	(253),Y
:			0872 E6 FB		INC	251
; following bytes are a basic line			0874 D0 02		BNE	NOH1
;			0876 E6 FC		INC	252
; '0 sys2080 rem 5del whirlybird'	•		0878 E6 FD	NOH1	INC	253
;			087A D0 02		BNE	NOH2
0801 1B 08 00	.BYT	27,8,0,0,158,50,48,5	087C E6 FE		INC	254
		6,48,58	087E 38	NOH2	SEC	
080B 8F 22 14	.BYT	143,34,20,20,20,20,	087F A5 FC		LDA	252
		20,32	0881 C9 D8		CMP	#\$D8
0813 57 48 49	.BYT	87,72,73,82,76,89,6	0883 90 E9		BCC	COPY
		6,73,82,68	0885 A9 37		LDA	#55
081D 00 00 00	.BYT	0,0,0	0887 85 01		STA	1
;			0889 A9 81		LDA	#129
;			088B 8D 0D DC		STA	56333
: Iollowing bytes are a basic line : 10 sys2080 rem 5del whirlybird : 0801 1B 08 00 080B 8F 22 14 0813 57 48 49 081D 00 00 00 : : :			088E A2 08		LDX	#8
;			0890 BD D0 13	NWCHR	LDA	CRDATA,X
0820 A9 93	LDA	#\$93	0893 9D D0 3A		STA	15056,X
0822 20 D2 FF	JSR	\$FFD2	0896 BD D8 13		LDA	CRDA1,X
0825 A2 00	LDX	#0	0899 9D 50 3B		STA	15184,X
0827 8E 21 D0	STX	53281	089C BD E0 13		LDA	CRDA2,X
082A 8E 20 D0	STX	53280	089F 9D 50 39		STA	14672,X
082D E8	INX		08A2 CA		DEX	
082E 8E 1B D0	STX	53275	08A3 10 EB		BPL	NWCHR
0831 A9 03	LDA	#3	08A5 A9 1F		LDA	#31
0833 8D 86 02	STA	646	08A7 8D 18 D0		STA	53272
0836 A2 10	LDX	#16	;			
0838 A9 00	LDA	#0	; install sprite	shapes		
083A 9D 00 D0 SPRCLR	STA	53248,X	;			
083D CA	DEX		08AA A9 11		LDA	# <sprdata< td=""></sprdata<>
083E 10 FA	BPL	SPRCLR	08AC 85 FB		STA	251
;			; 08AA A9 11 08AC 85 FB 08AE A9 11 08BO 85 FC 08B2 A9 00 08B4 85 FD 08B6 A9 3C 08B8 85 FE 08BA AO 00		LDA	#>SPRDATA
; clear & load SID chip	-		08B0 85 FC		STA	252
;			08B2 A9 00		LDA	#<15360
0840 A2 18	LDX	#24	08B4 85 FD		STA	253
0842 9D 00 D4 SIDCLR	STA	54272,X	08B6 A9 3C		LDA	#>15360
: clear & load SID chip  0840 A2 18 0842 9D 00 D4 SIDCLR 0845 CA 0846 10 FA 0848 A2 18 084A BD 3B 14 SIDLD 084D 9D 00 D4 0850 CA 0851 10 F7  : install new character set	DEX		08B8 85 FE		STA	254
0846 10 FA	BPL	SIDCLR	08BA AO OO		LDY	#0
0848 A2 18	LDX	#24	08BC B1 FB	PTSPR	LDA	(251),Y
084A BD 3B 14 SIDLD	LDA	SID,X	08BE 91 FD		SIA	(253),Y
084D 9D 00 D4	STA	54272,X	08C0 E6 FB		INC	251
0850 CA	DEX		08C2 D0 02		BNE	NO52
0851 10 F7	BPL	SIDLD	08C4 E6 FC		INC	252
1			08C6 E6 FD	N052	INC	253
; install new character set			08C8 D0 02		BNE	N054
;			08CA E6 FE		INC	254
0853 A9 7F	LDA	#127	08CC 38	NO54	SEC	
0855 8D 0D DC	STA	56333	08CD A5 FB		LDA	251
0858 A9 33	LDA	#51	08CF E9 D0		SBC	# <endata< td=""></endata<>
085A 85 01	STA	1	08D1 A5 FC		LDA	252
085C A9 00	LDA	#0	08D3 E9 13		SBC	#>ENDATA
install new character set 0853 A9 7F 0855 8D 0D DC 0858 A9 33 085A 85 01 085C A9 00 085E 85 FB 0860 A9 D0	STA	251	08C0 E6 FB 08C2 D0 02 08C4 E6 FC 08C6 E6 FD 08C8 D0 02 08CA E6 FE 08CC 38 08CD A5 FB 08CF E9 D0 08D1 A5 FC 08D3 E9 13 08D5 90 E5		BCC	PTSPR
0860 A9 D0	LDA	#\$D0				

; change IRQ vector for			094F C9 88	CMP	#136
; interrupt-driven bird movement			resume if f7	DEO	00
; 08D7 78	SEI		0951 F0 0A 0953 D0 0D	BEQ BNE	GO KINT
ODD/ 70	IDA	#~INTERRUPT	0955 A9 01 STOP 0957 8D 69 03	IDA	#1
08DA 8D 14 03	STA	\$0314	0957 8D 69 03	STA	GOFLAG
08DD A9 0F	LDA	#>INTERRUPT	095A 4C 45 09	JMP	GETSTICK
08D8 A9 DB 08DA A9 D4 03 08DD A9 0F 08DF 8D 15 03 08E2 58	STA	#≺INTERRUPT \$0314 #>INTERRUPT \$0315	0957 6D 69 03 095A 4C 45 09 095D A9 00 GO 095F 8D 69 03	LDA	#0
08E2 58	CLI		095D A9 00 GO 095F 8D 69 03 0962 AD 69 03 VINT 0965 DO DE 0967 AD 46 03 096A DO 08 096C A9 00 096E 8D 68 03 0971 4C 7E 09 0974 AD 68 03 0977 DO 05 0979 A9 01 0978 BD 68 03 ; check for game over 097E 20 97 0E BOKC 0981 AD 58 03 0984 DO 12 ; game over, start a new one 0986 20 02 0E	STA	GOFLAG
;			0962 AD 69 03 KINI	LUA	GOFLAG
; some startup values			0903 DU DE 0967 AD 46 03	I DA	GETSTICK BIRDSPEED
08E3 A9 00 08E5 8D 69 03 08E8 A9 F0 08EA 8D 3C 03 08ED A9 00 08EF 8D 57 03 08F2 8D 58 03 08F5 20 3C 0A 08F8 A9 14 08F0 A9 15 08FF 8D 0B D4 : reentry point	IDΔ	#0	0964 DD 08	RNF	JUJ
08E5 8D 69 03	STA	GOFLAG	096C A9 00	LDA	#0
08E8 A9 F0	LDA	#240	096E 8D 68 03	STA	GFLAG
08EA 8D 3C 03	STA	SHAPE	0971 4C 7E 09	JMP	BOKC
08ED A9 00	LDA	#0	0974 AD 68 03 JUJ	LDA	GFLAG
08EF 8D 57 03	SIA	SCORE	0977 D0 05	RNF	BOKC #1
U8F2 8D 38 U3	SIA	SCURE + I	09/9 A9 UI	CTA	GFLAG
ORFR AQ 14	I DA	#20	check for game over	SIA	GILAG
08FA 8D 0B D4	STA	54283	097E 20 97 0E BOKC	JSR	DONCHK
08FD A9 15	LDA	#21	0981 AD 5B 03	LDA	DNFLAG
08FF 8D 0B D4	STA	54283	0984 D0 12	BNE	PLAY
1			; game over, start a new one	100	LIBOOODE
; reentry point			0986 20 02 0E	JSR	UPSCORE
OOO2 20 CE DE DECTART	ICD	CTADTUD	0989 20 02 0E	JOH	UPSCORE UPSCORE
0902 20 C6 0E RESTART; new game if eggs all gone. 0905 AD 62 03 NWEGG 0908 F0 F8	Jon	SIANTUP	1986 20 02 0E	JSR	UPSCORE
0905 AD 62 03 NWFGG	LDA	BALLS	0992 20 02 0E	JSR	UPSCORE
0908 F0 F8	BEQ	RESTART	0995 4C 02 09	JMP	RESTART
; missed - subtract one egg			; game not over, check for a		
0908 FO F8 ; missed - subtract one egg ; and reverse egg direction. 090A CE 62 03 090D A9 01 090F 8D 51 03 ; new dir'n for filter sweep. 0912 A9 00 0914 8D 5F 03 0917 AD 57 03 091A DD 58 03 091D E9 0A 091F 90 14 ; if score>9 then score = score			; collision between bird & egg.		
090A CE 62 03	DEC	BALLS	0998 AD 55 03 PLAY	LDA	COLSAV
090D A9 01	LUA	#1	U99B FU 32	BEU	NOCOL
new dir'n for filter sween	SIA	EGUD	1990 20 39 OD	JSR	BOUNCE
0912 A9 00	I DA	#0	09A0 20 ED 0B	JSR	EGERASE
0914 8D 5F 03	STA	FDIR	; decide which way to bounce e	99.	
0917 AD 57 03	LDA	SCORE	; based on current joystick dir'n.		
091A 0D 58 03	ORA	SCORE+1	09A3 AD 00 DC	LDA	56320
091D E9 0A	SBC	#10	09A6 29 0F	AND	#15
U91F 9U 14	_ BCC	NUIAK	09A8 C9 UB	DEO	#11 LDIR
; if score>9 then score=score-	SEC		09AC C9 07	CMP	#7
0922 AD 57 03	LDA	SCORE	09AE FO OB	BEQ	RDIR
0925 E9 0A	SBC	#10	09B0 4C C0 09	JMP	NODIR
0927 8D 57 03	STA	SCORE	09B3 A9 00 LDIR	LDA	#0
092A AD 58 03	LDA	SCORE+1	09B5 8D 53 03	STA	EGLR
092D E9 00	SBC	#U CCODE 1. 1	0988 4C CU 09	JMP	NODIR #1
: If score>9 tinen score=score- 0921 38 0922 AD 57 03 0925 E9 0A 0927 8D 57 03 092A AD 58 03 092D E9 00 092F 8D 58 03 0932 20 2E 0E ; wait for player to press button	ISB	DOSCR	1980 A9 U1 HDIN	STA	#1 EGLR
wait for player to press button	3311	DOJON	and to score cuz we hit the er	חמ	EGEN
0935 NOTAK	=	*	09C0 20 02 0E NODIR	JSR	UPSCORE
0935 20 CA 10 0938 AD 00 DC 0938 29 10 0930 D0 F6 ; choose new egg direction 093F 20 F8 0B 0942 20 E7 0C			09C3 20 51 0A	JSR	SLOWDOWN
0935 20 CA 10	JSR	SPARKLE	; reverse egg u/d direction		
0938 AD 00 DC	LDA	56320	09C6 A2 01	LDX	#1
093B 29 10	AND	#10	09C8 8E 51 U3	SIX	EGUD
choose new ear direction	DINE	NUIAN	1900 0A 1900 40 D1 19	IMP	DOCOL
093F 20 F8 0B	JSR	EGNEW	: entry point when no collision	0.711	DOOOL
0942 20 E7 OC	JSR	EGPUT	09CF A9 00 NOCOL	LDA	#0
1			09D1 8D 56 03 DOCOL	STA	COLFLAG
; main loop	-		09D4 20 51 0A	JSR	SLOWDOWN
1 0045 20 05 55 05501014	ICD	eccoc	; now we can move the egg	ICC	FOLIO #F
0943 20 9F FF GETSTICK	JSR JSR	<b>⊅</b> ΓΓΥΓ	if there was no collision with a	J2H	EGMOVE
0945 20 9F FF GETSTICK 0948 20 E4 FF 0948 C9 85	CMP	#133	noison deal on move hird		
pause if f1	J.111	00	09DA AD 63 03	LDA	PFLAG
094D F0 06	BEQ	STOP	0981 AD 58 03 0984 DD 12  ; game over, start a new one 0986 20 02 0E 0998 20 02 0E 0998 20 02 0E 0995 4C 02 09 ; game not over, check for a ; collision between bird & egg. 0998 AD 55 03 PLAY 0998 FO 32 ; yes, the bird did hit the egg 0990 20 39 0D 09A0 20 ED 0B ; decide which way to bounce ee; based on current joystick dir'n 09A3 AD 00 DC 09A6 29 0F 09A8 C9 0R 09AA FO 07 09AC C9 07 09AC C9 07 09AC C9 07 09AC C9 07 09AC T0 0B 09BB AD 01 RDIR 09BB AD 0	BEQ	DOJOY

; oops, hit poison gob, so we			0A5C AD 48 03		LDA	COUNT+1
; need a new egg.			0A5F C9 0F 0A61 90 EE		CMP	#15
09DF 4C 05 09	JMP	NWEGG	0A61 90 EE		BCC	SLOWDOWN
; read stick to decide whether to			0A63 A9 00	COUNTDONE		#0
; accelerate, decelerate or			0A65 8D 48 03		STA	COUNT + 1
; reverse the bird's movement.			0A68 60		RTS	
09E2 AD 00 DC DOJOY	LDA	56320	;			
09E5 29 0F 09E7 C9 0B	AND	#15	; draw playfield	screen		
09E7 C9 0B	CMP	#11				
09E9 C9 0B	CMP CMP BEQ CMP BEQ	#11	0A69	DRAWSCRN	=	*
09EB F0 24	BEQ	LPULL	0A69 A9 C0			#<1984
09ED C9 07	CMP	#7	0A6B 8D 49 03		STA	DLIMIT
09EF FU 18	BEC	RPULL	0A6E A9 07		LDA	#>1984
09F1 AD 40 U3	LUA	BIKDSLEED	0A70 8D 4A 03		STA	DLIMIT+1
09F4 D0 03	DIVE	CETETICK	UA/3 A9 3U		LDA	#<1104
00E0 CE 64 03 CHOC	DEC	CLEIAC	UA73 03 U3		STA	3 #>1104
NOFC AD 64 03 CHOC	I DA	SLFLAG SLFLAG	0A77 A9 04 0A70 95 04		LDA STA	#>1104 4
09FF D0 2D	RNF	NUCUMN	0A79 03 04 0A7R AQ 6A		LDA	#106
0A01 A9 03	LDA	#3	NATO AS OA		STA	CHAR
0A03 8D 64 03	STA	SI FI AG	OARO AQ OD		LDA	#13
0A06 4C 2B 0A	JMP	BSLOW	0A82 8D 4C 03		STA	COL
0A09 AD 41 03 RPULL	LDA	LEX	0A85 20 90 0B		JSR	DRAWDOWN
0A0C D0 08	BNE	FASTER	0A88 A9 E7		LDA	#<2023
09ED 09 07 09EF F0 18 09F1 AD 46 03 09F4 D0 03 09F6 4C 45 09 09F9 CE 64 03 CHOC 09FC AD 64 03 09FF D0 2D 0A01 A9 03 0A03 8D 64 03 0A06 4C 2B 0A 0A09 AD 41 03 RPULL 0A0C D0 08 0A0E 4C 26 0A	JMP	SLOWER	0A8A 8D 49 03		STA	DLIMIT
UATT AD 41 03 TPULL	LDA	LEX	0A8D A9 07		LDA	#>2023
0A0E 4C 26 0A 0A11 AD 41 03 LPULL 0A14 D0 10	BNE	SLOWER .	0A8F 8D 4A 03		STA	DLIMIT+1
0A14 D0 10 0A16 0A16 0A16 0A16 0A16 0A16 0A16 0A	=	#7 RPULL BIRDSPEED CHOC GETSTICK SLFLAG SLFLAG NOSDWN #3 SLFLAG BSLOW LEX FASTER SLOWER LEX BIRDSPEED #12 FAH GETSTICK BIRDSPEED BIRDSPEED BIRDSPEED BIRDSPEED BIRDSPEED BIRDSPEED GETSTICK  LEX #1 LEX #1 LEX GETSTICK	0A70 8D 4A 03 0A73 A9 50 0A75 85 03 0A77 A9 04 0A79 85 04 0A78 A9 6A 0A7B A9 6A 0A7B A9 6A 0A7B A9 6A 0A7B A9 0D 0A82 8D 4C 03 0A85 A9 07 0A84 8D 49 03 0A85 A9 07 0A85 8D 44 03 0A85 A9 07 0A85 8D 44 03 0A85 A9 07 0A96 A9 04 0A98 85 04 0A98 A9 6A		LDA	#<1143
0A16 AD 46 03	LDA	BIRDSPEED	0A94 85 03		STA	3
0A19 C9 UC	CMP	#12	0A96 A9 04		LDA	#>1143
0A1D 4C 45 00	RCC	FAH	UA98 85 U4		STA	4
0A1D 4C 45 09	JIVIP	DIDUCDEED	DAGE OF AR OR		LDA	#106
0A23 4C 45 09	IMP	GETSTICK	043C 0D 4D 03		STA JSR	CHAR DRAWDOWN
0A26 SLOWER	=	*	ΛΔ2 ΔQ FQ		LDA	#<1785
0A26 AD 46 03	LDA	BIRDSPEED	0AA4 85 03		STA	3
0A29 F0 06	BEQ	REVERSE	0AA6 A9 06		LDA	#>1785
0A2B CE 46 03 BSLOW	DEC	BIRDSPEED	0AAA A9 1E 0AAC 8D 49 03 0AAF A9 07 0AAF A9 07 0AB1 8D 4A 03 0AB6 A9 5A 0AB6 8D 4B 03 0AB8 AD 4C 03 0AB8 20 C2 0B 0AC1 A9 21 0AC3 85 03 0AC5 A9 07 0AC9 A9 46		STA	4
0A2E 4C 45 09 NOSDWN	JMP	GETSTICK	OAAA A9 1E		LDA	#<1822
0A31 REVERSE	=	*	0AAC 8D 49 03		STA	DLIMIT
0A31 AD 41 03	LDA	LEX	0AAF A9 07		LDA	#>1822
UA34 49 U1	EON	#1	UAB1 8D 4A 03		STA	DLIMIT+1
0A30 8D 41 U3	SIA	CETCTION	UAB4 A9 5A		LDA	#90
end of main loop	JIVIP	GEISHON	0AB0 8D 4B 03		STA	CHAR
. Chu oi main loop			UVD2 V2 01		LDA STA	#7 COL
sound			0ABE 20 C2 0B		JSR	DRAWRIGHT
			0AC1 A9 21		LDA	#<1825
; reset registers for			0AC3 85 03		STA	3
; initial sound.			0AC5 A9 07		LDA	#>1825
0A3C BOAT	=	*	0AC7 85 04		STA	4
0A3C A9 9B	LDA	#155				#<1862
0A3E 8D 07 D4	SIA	54279	0ACB 8D 49 03		STA	DLIMIT
0A41 A9 03 0A43 8D 08 D4	LUA	#3	0ACE A9 07		LDA	#>1862
0A46 A9 0B	DIA	3426U #11	0AD0 8D 4A 03 0AD3 A9 06		STA	DLIMIT+1
0A48 8D 00 D4	CTA	#11 5/070	0AD5 A9 U0		LDA STA	#6 COL
0A4B A9 07	IDA	#7	0AD5 8D 4C 03 0AD8 20 C2 0B		JSR	DRAWRIGHT
0A4D 8D 01 D4	STA	54273	0ADB A9 49		LDA	#<1865
0A50 60	RTS	0 12.0	0ADD 85 03		STA	3
;			0ADF A9 07		LDA	#>1865
; slow that bird		* #155 54279 #3 54280 #11 54272 #7 54273	0AE1 85 04			4
,			0AE3 A9 6E		LDA	#<1902
; slows bird down when you're no	ıt		OAE5 8D 49 03		STA	DLIMIT
; pressing on the stick.			0AE8 A9 07		LDA	#>1902
0A51 SLOWDOWN	=	0011117	0AEA 8D 4A 03		STA	DLIMIT+1
0A51 EE 47 03	INC	COUNT	UALU AY US		LDA	#5 COL
0A54 AD 47 03 0A57 D0 F8	LDA BNE	COUNT SLOWDOWN	0AED A9 05 0AEF 8D 4C 03 0AF2 20 C2 0B		STA JSR	DRAWRIGHT
0A57 D0 F8 0A59 EE 48 03 COUNTUP	INC	COUNT+1	0AF5 A9 71		LDA	#<1905
					,	

OAF7 85 03	STA	3	089E 69 D4	ADC	#212
0AF9 A9 07	LDA	#>1905	0BA0 85 06	STA	6
0AFB 85 04	STA	4	0BA2 AD 4C 03	LDA	COL
0AFD A9 96	LDA	#<1942	0BA5 91 05	STA	(5),Y
0AFF 8D 49 03	STA	DLIMIT	0BA7 18	CLC	
0B02 A9 07	LDA	#>1942	0BAB A5 03	LUA	3
0804 8D 4A 03	SIA	DLIMII + 1	0BAA 69 28	ADU	#40
0800 8D 4C 03	CTA	#1	OBAC 03 U3	IDA	3 A
0805 0D 4C 03	ISB	DRAWRIGHT	0BR0 69 00	ADC	#0
OBOF A9 99	I DA	#<1945	0BB2 85 04	STA	4
0B11 85 03	STA	3	08B4 38	SEC	•
0B13 A9 07	LDA	#>1945	0BB5 AD 49 03	LDA	DLIMIT
0B15 85 04	STA	4	0BB8 E5 03	SBC	3
0B17 A9 BE	LDA	#<1982	0BBA AD 4A 03	LDA	DLIMIT+1
0819 8D 49 03	SIA	DLIMII #- 1002	0BBD E5 04	SRC	DRAWSOME
OBIC AS U/	CTA	#>1902 DLIMIT 1	0BC1 60	BTS	DUMANOUNIE
081E 0D 4A 03	IDA	#6		1110	
0B23 8D 4C 03	STA	COL	rtn for screen draw		
0B26 20 C2 0B	JSR	DRAWRIGHT			
0B29 A9 C1	LDA	#<1985	0BC2 DRAWRIGHT	=	•
0B2B 85 03	STA	3	0BC2 A0 00	LDY	#0
0B2D A9 07	LDA	#>1985	OBC4 AD 4B 03 DRAWR	LDA	CHAR
082F 85 04	STA	4	0BC7 91 03	SIA	(3),Y
UB31 A9 E6	LDA	#<2022	OBCD OF OF	CTA	3 5
0B33 6D 49 03 0B36 AQ 07	IDA	#~3022	0BCB 63 03 0BCD 18	CLC	J
0B38 8D 4A 03	STA	DI IMIT + 1	0BCF A5 04	LDA	4
0B3B A9 03	LDA	#3	0BD0 69 D4	ADC	#212
0B3D 8D 4C 03	STA	COL	0BD2 85 06	STA	6
0B40 20 C2 0B	JSR	DRAWRIGHT	0BD4 AD 4C 03	LDA	COL
0B43 A9 57	LDA	#87	0BD7 91 05	STA	(5),Y
0B45 8D 02 07	STA	1794	0BD9 E6 03	INC	3
0848 8D 15 07	SIA	1813	08DB D0 02	BNE	NO4INK
0848 8D 77 07	SIA	1911	ODDE 20 NOAINE	SEC	4
0851 8D C4 07	STA	1988	OBEN AD 49 03	IDA	DLIMIT
0B54 8D CA 07	STA	1994	0BE3 E5 03	SBC	3
0B57 8D D0 07	STA	2000	0BE5 AD 4A 03	LDA	DLIMIT+1
0B5A 8D 58 07	STA	1880	OBE8 E5 04	SBC	4
0B5D 8D 60 07	STA	1888	08EA B0 D8	BCS	Drawr
0B60 8D D7 07	STA	2007	0BEC 60	RTS	
0863 8D DD 07	SIA	2013			
0800 8D E3 U/	DIA	2019 #1	erase egg		
OBGR AD O2 DR	STA	1794 + 54272	ORED EGERASE	=	
086E 8D 15 DB	STA	1813+54272	0BED A9 20	LDA	#32
0B71 8D 77 DB	STA	1911 + 54272	OBEF AO 00	LDY	#0
0B74 8D 90 DB	STA	1936 + 54272	0BF1 91 FB	STA	(EGG),Y
0B77 8D C4 DB	STA	1988 + 54272	0BF3 A9 01	LDA	#1
OB7A BD CA DB	STA	1994 + 54272	0BF5 91 FD	STA	(EGCOL),Y
08/U 8D DU DB	SIA	2000 + 54272	UBF7 BU	KIS	
0883 8D 58 DB	STA	1880 + 54272	DOW 800		
0886 8D 60 DB	STA	1888 + 54272			
0889 8D DD DB	STA	2013 + 54272	OBF8 EGNEW	=	•
0B8C 8D E3 DB	STA	2019 + 54272	0BF8 20 34 0C	JSR	GETRAND
0B8F 60	RTS		0BFB C9 23	CMP	#35
de ferre			OBFD BO F9	BCS	EGNEW
rtn for screen draw			UBFF 8D 4F U3	SIA	IEMP
UBBU DEWIDOWN	_	*	0002 10 0003 40 CA	LDA	#202
0890 A0 00	IDV	#0	0005 A5 GA 0005 AD 4F 03	ADC	#2UZ TEMP
0B92 AD 4B 03 DRAWSOME	LDA	CHAR	0C08 85 FB	STA	EGG
0B95 91 03	STA	(3),Y	OCOA A9 04	LDA	#4
0B97 A5 03	LDA	3	OCOC 69 00	ADC	#0
0B99 85 05	STA	5	OCOE 85 FC	STA	EGG+1
UB9B 18	CLC	4	0C10 18	CFC	500
0AF7 85 03 0AF9 A9 07 0AF8 85 04 0AFD A9 96 0AFF 8D 49 03 0B02 A9 07 0B04 8D 4A 03 0B07 A9 07 0B09 8D 4C 03 0B0F A9 99 0B11 85 03 0B11 85 03 0B13 A9 07 0B15 85 04 0B17 A9 BE 0B18 8D 49 03 0B16 A9 07 0B16 8D 49 03 0B16 A9 07 0B16 8D 40 03 0B20 A0 03 0B30 A0 00 0B31 A9 07 0B48 B0 14 0B49 A9 07 0B41 A9 07 0B51 B0 C4 03 0B33 B0 49 03 0B20 A9 07 0B54 B0 02 07 0B48 B0 15 07 0B54 B0 C4 07 0B55 B0 C4 07 0B56 B0 E3 0B7 A9 07 0B56 B0 E3 0B7 A9 07 0B66 B0 E3 0F 0	LUA	4	0011 W2 FR	LDA	tGG

OC13 69 00	ADC	#0	; egg is moving 0C8D A5 FB 0C8F 85 AA 0C91 A5 FC 0C93 85 AB 0C95 AD 51 03 0C98 D0 18 0C9A 38 0C9B A5 FB 0C9D E9 51 0C9F A5 FC 0CA1 E9 04	un.		
0C15 85 FD	STA	FGCOI	OCRD AS FR	ECITE Th	I DA	EGG
0C17 A5 FC	LDA	FGG + 1	000D A3 1B	LGOI	STA	\$AA
0C19 69 D4	ADC	#212	0001 05 701 0091 A5 FC		IDA	EGG+1
OC1D OF EE	OTA	EGCOL +1	0C93 85 AB		STA	\$AB
0C1D 63 FC 0C1D 89 01 0C1F 8D 51 03 0C22 20 34 0C 0C25 30 07 0C27 A9 00	IDA	#1	0095 AD 51 03		IDA	EGUD
0C1F 8D 51 03	STA	EGUD GETRAND	0098 D0 1R		RNF	EGDN
0C22 20 34 0C	JSR	GETRAND	0C9A 38		SEC	CUDIT
0C25 30 07	BMI	EGRT	OCOR AS FR		IDA	EGG
0C27 A9 00	LDA	#0	0C9D F9 51		SBC	#<1105
0029 00 00 00	LDA STA	EGLR	OCSE AS EC		IDA	EGG+1
0C2C F0 05	BEQ	DEXIT	OCA1 F9 04		SBC	#>1105
OC2E A9 01 EGRT	BEQ LDA	#1	OCA3 90 5A		BCC	EGTOP
0C30 8D 53 03	STA	EGLR	0CA5 38		SEC	24101
0C33 60 DEXIT	RTS		OCA6 A5 FB		LDA	EGG
;			OCA8 E9 28		SBC	#40
; read random number genera	tor		OCAA 85 FB		STA	EGG
i			OCAC A5 FC		LDA	EGG+1
0C34 AD 1B D 4 GETRAND	LDA	\$D41B	OCAE E9 00		SBC	#0
0C37 60	RTS		0CB0 85 FC		STA	EGG+1
;			0CB2 4C CD 0C		JMP	EGCHEK
; move egg			0C98 DO 18 0C9A 38 0C9B A5 FB 0C9D E9 51 0C9F A5 FC 0CA1 E9 04 0CA3 90 5A 0CA5 38 0CA6 A5 FB 0CA8 E9 28 0CAA 85 FB 0CAC A5 FC 0CAE E9 00 0CB0 85 FC 0CB2 4C CD 0C 1 egg moving do 0CB5 A5 FB 0CB6 A5 FB 0CB6 A5 FB 0CB6 A5 FB	wn		
0000 5014015			0CB5 38	EGDN	SEC	
OC38 EGMOVE		*	OCB6 A5 FB		ĿDA	EGG
; clear poison flag, erase egg			OCB8 E9 CO		SBC	#<1984
0030 A9 00	LUA	#U	OCBA A5 FC		LDA	EGG+1
; clear poison flag, erase egg 0C38 A9 00 0C3A 8D 63 03 0C3D 0ED 0B	SIA	#0 PFLAG EGERASE	0CBC E9 07	wn EGDN	SBC	#>1984
check I/r flog to con which up	Jon	EGERASE	OCBE BU 4D		BCS	EGBOT
; check I/r flag to see which wa 0C40 AD 53 03 0C43 DO 16	y IDA	EC! D	0004 45 50		CLC	
0040 AD 35 05 0043 DO 16	DNE	ECOLT	0003 E0 30		LUA	EGG
. move that our to the left	DIAL	Lanii	0003 09 20 0005 95 ED		ADU	#40
0C45 20 71 0C	ICR	ECI	0003 03 FB		SIA	EGG
0C48 AO OO	100	#n	0007 43 FC		ADC ADC	EGG + 1 #0
OC4A B1 FB	IDA	(FGG) Y	0003 03 00 0008 85 FC		CTA	FGG+1
; check I/r flag to see which wa 0C40 AD 53 03 0C43 D0 16 ; move that pup to the left 0C45 20 71 0C 0C48 A0 00 0C4A B1 FB ; check collision w/ sidebar	LDA	(Luu), i	OCB6 A5 FB OCB8 E9 C0 OCBA A5 FC OCBC E9 07 OCBE B0 4D OCC0 18 OCC1 A5 FB OCC3 69 28 OCC5 85 FC OCC9 69 00 OCCB 85 FC : deliberate fall-th	rough here	SIA	EGG T I
; check collision w/ sidebar 0C4C C9 6A	CMP	#106	; doniborato iun ti	iloagii iloic		
ULVE EU US	BEQ	LSIT	: check eag/ch	naracter collisio	ons	
0C50 D0 3B	BNE	EGUP	OCCD 337	EGCHEK	=	*
0C52 20 7F 0C LSIT	JSR	EGR	OCCD B1 FB		LDA	(EGG),Y
0C55 20 20 0D	JSR	revlr	; 87 = poison			, ,
0C50 D0 3B 0C52 20 7F 0C LSIT 0C55 20 20 0D 0C58 4C 38 0C	JMP	EGMOVE	OCCF C9 57		CMP	#87
; move egg to the right this time			0CD1 D0 03		BNE	DEGH
UC5B 20 7F UC EGRIT	JSR	EGR	0CD3 4C 54 0D		JMP	PENALTY
UCSE AU UU	LDY	#0	; 90=score			
0000 CO CA	LDA	(EGG),Y	0CD6 C9 5A	DEGH	CMP	#90
0064 E0 00	CMP	#1Ub	UCD8 FU U7		BEQ	HITSOME
0004 FU UZ	DEU	KOH	; 10b=sidebar		0140	"400
0000 D0 23	ICD	EGUP	OCDC CO 42		CMP	#106
0068 20 20 0D	ISB	DEVI D	ODD FU 42	hility now io	DEU	REVLR
0C6F 4C 38 0C	IMP	FGMOVE	, only office bossi	DINING AND		
0C58 4C 38 0C : move egg to the right this time 0C5B 20 7F 0C EGRIT 0C5E A0 00 0C60 B1 FB 0C62 C9 6A 0C64 F0 02 0C66 D0 25 0C68 20 71 0C RSIT 0C68 20 20 0D 0C6E 4C 38 0C	Olati	EGMOVE	OCDE 4C E7 OC	nove egg	IMP	EGPUT
0C71 38 EGL	SEC		OCBE BD 4D OCCO 18 OCCO 18 OCCO 18 OCCO 369 28 OCCS 369 28 OCCS 365 FB OCC7 A5 FC OCC9 69 00 OCCB 85 FC : deliberate fall-tri : check egg/cf OCCD OCCD B1 FB : 87 == poison OCCF 025 57 OCD1 D0 03 OCD3 4C 54 0D : 90 == score OCD6 C9 5A OCD8 F0 07 : 106 == sidebar OCDA C9 6A OCDC F0 42 : only other possi; space, so just r OCDE 4C E7 0C : OCC1 20 15 0D OCE1 20 15 0D OCE1 20 183 0E		OWII	Ed. Oi
0C71 38 EGL 0C72 A5 FB	LDA	EGG	0CE1 20 15 0D 0CE4 20 83 0E	HITSOME	JSR	REVUD
0C74 E9 01	SBC	#1	OCE4 20 83 0E		JSR	ONEMORE
0C76 85 FB	STA	FGG	:			
0C78 A5 FC	LDA	EGG+1	OCE7 AO OO	EGPUT	LDY	#0
OC7A E9 OO	SBC	#0			LDA	#42
0C7C 85 FC	STA	#0 EGG+1	OCEB 91 FB		STA	(EGG),Y
0C7E 60	RTS		0CED 18		CLC	
; 0C7F 18 EGR 0C80 A5 FB	01.5		0CEE A5 FB 0CF0 69 00 0CF2 85 FD		LDA	EGG
OC7F 18 EGR	CLC		OCFO 69 00		ADC	#0
0C80 A5 FB	LDA	EGG	UCF2 85 FD		STA	EGCOL
0082 69 01	ADC	#1 500	UUH4 A5 FC		LDA	EGG+1
0C84 85 FB	STA	EGG	0CF4 A5 FC 0CF6 69 D4 0CF8 85 FE		ADC	#212
0C86 A5 FC 0C88 69 00	LDA ADC	EGG+1 #0	UUFØ 85 FE		STA	EGCOL+1
0C8A 85 FC	STA	#U EGG+1	וט פה הוטט		LDA	#1 /ECCOL\ V
0C8C 60	RTS	LUUT I	OCFC 91 FD OCFE 60		STA RTS	(EGCOL),Y
7000 VV			001 5 00		1113	

;			OD76 C9 E9 OD78 90 02 OD7A B0 05 OD7C AD 55 03 DNMOR OD7F F0 E6 OD81 20 39 OD BONSCR OD84 20 34 OC BOTSCR OD87 C9 20 OD89 B0 F9 OD88 8D 4F 03 OD8E A9 AC OD90 85 B0 OD92 A9 06 OD94 85 B1 OD96 A0 00 OD98 18 OD98 A5 B0 OD98 E5 B0 ODA0 A5 B1 ODA2 69 OO ODA4 85 B1 ODA4 85 B1 ODA4 69 OO ODA4 85 B1 ODA4 69 OO ODA4 85 B1 ODAC C8 ODAA CO ODAA F0 D8 ODAC C8 ODAA CO ODAS AD ODAC C8 ODAC CB	CMP	#233
OCFF A9 01 EGTOP	LDA	#1	0D78 90 02	BCC	DNMOR
0D01 8D 51 03	SIA	EGUD	UD/A BU UD	BO9	BONSCR COLSAV
0D04 8D 63 03 0D07 A9 00	SIA	PFLAG	ODZE EO ES	REO	DESCEND
0D07 A9 00 0D09 8D 46 03	LDA STA STA LDA STA RTS	RIRNSPEEN	0D71 10 E0 0D81 20 39 0D BONSCR	JSR	BOUNCE
0D0C 60	RTS	טוונטטו בבט	0D84 20 34 0C BOTSCR	JSR	GETRAND
			0D87 C9 20	CMP	#32
ODOD A9 00 EGBOT	LDA	#0	0D89 B0 F9	BCS	BOTSCR
0D0F 8D 51 03	STA	EGUD	0D8B 8D 4F 03	STA	TEMP
DDD A9 00 EGBOT ODDF 8D 51 03 OD12 4C 39 0D reverse egg up/down dir OD15 AD 51 03 REVUD OD18 49 01 OD10 4C 39 0D reverse egg left/right dir OD20 AD 53 03 OD23 49 01 OD25 8D 53 03 OD28 4C 39 0D	JMP	BOUNCE	ODBE A9 AU	CTA	#<1708 \$B0
; reverse egg up/down dir	U TDV	ECHD	0D03 V0 08	1 DA	φου #>1708
0012 AD 31 U3 NEVUD	FOR	#1	0D92 A5 00 0D94 85 B1	STA	\$B1
0D10 49 01 0D1A 8D 51 03	STA	EGUD	0D96 A0 00	LDY	#0
0D1D 4C 39 0D	JMP	BOUNCE	0D98 18	CLC	
; reverse egg left/right dir'	n		0D99 A5 B0	LDA	\$B0
OD20 REVLR	=	*	0D9B 6D 4F 03	ADU	TEMP \$B0
0D20 AD 53 03	LDA	EGLH #1	0D40 A5 B1	1 DA	\$B1
0D23 49 U1	STA	# I FCI R	0DA0 A3 B1 0DA2 69 00	ADC	#0
0D23 6D 33 03 0D28 4C 39 0D	JMP	BOLINCE	0DA4 85 B1	STA	\$B1
:	0.00	500,,02	ODA6 B1 BO CKIT	LDA	(\$B0),Y
OD2B UPONE	= SEC	*	ODA8 C9 6A	CMP	#106
0D2B 38	SEC		ODAA FO D8	BEQ	BOTSCR
OD2C A5 FB	LDA	EGG	ODAC C8	INY	#5
OD2E E9 28	SBC	#40	ODAE DO EE	DNE	#3 CKIT
0D30 85 FB 0D32 A5 FC	SEC LDA SBC STA LDA SBC STA RTS	EGG + 1	: denosit a new sidehar	DIVL	Olai
0D32 A3 FC	SBC	#0	ODB1 AO 02	LDY	#2
0D36 85 FC	STA	EGG+1	0DB3 A9 6A	LDA	#106
0D38 60	RTS		0DB5 91 B0	STA	(\$B0),Y
;			0DB7 18	CLC	400
; bounce			0DB8 A5 B0	LUA	\$B0 #0
;			0DBC 95 B0	ADC AT2	#0 \$B0
; souther for every end col	il Ilision		ODRE A5 R1	LDA	\$B1
OD39 BOLINO	F =	*	0DC0 69 D4	ADC	#212
0D39 A9 40	LDA	#64	0DC2 85 B1	STA	\$B1
0D3B 8D 04 D4	STA	54276	0DC4 A9 03	LDA	#3
0D3E 20 CA 10	JSR	SPARKLE	0DC6 91 B0	STA	(\$B0),Y
0D41 A9 B4	LDA	#180 FOUT	0DCV VO 03	LDY	#0 #3
0D45 8D 3E 03	SIA LDA	#1	ODCA AS US	STA	#3 (\$B0),Y
0D40 A9 01 0D48 8D 5D 03	STA	FCNT	ODCE AO OO	LDY	#0
0DD4B 8D 5F 03	STA	FDIR	; deposit a new sidebar  ODB1 A0 02  ODB3 A9 6A  ODB5 91 B0  ODB7 18  ODB8 A5 B0  ODB6 A5 B0  ODB6 A5 B1  ODC0 69 D4  ODC2 85 B1  ODC4 A9 03  ODC6 91 B0  ODC8 A0 00  ODCA A9 03  ODCC 91 B0  ODCE A0 00  ; move bird back up  ODD0 AD 01 D0 BAKUP  ODD3 C9 3C  ODD5 90 12  ODD7 20 CA 10  ODDA CE 01 D0		
OD4E A9 41	LDA	#65	ODDO AD 01 DO BAKUP	LDA	53249
0D50 8D 04 D4	STA	54276	0DD3 C9 3C	CMP	#60
0D53 60	RIS		0DD7 20 CA 10	BCC	DAKUP SPARKLE
: nenalty			ODDY 20 CA 10	DEC	53249
· portaity			ODDD CE 01 D0	DEC	53249
; comes when egg hits po	oison		0DE0 AD 01 D0	LDA	53249
; globule down below. ow!			0DE3 8D 01 D4	STA	54273
0D54 20 3C 0A PENAL	TY JSR	BOAT	ODE6 4C DO OD	JMP	BAKUP
0D5/ A9 U3	LDA	#3	ODEC AO OO	LDA	53279 #0
0D39 0D 40 03	IDA	#2	ODEC AS 00 ODEF 8D 20 DO	STA	\$D020
0D5F 8D 20 D0	STA	\$D020	0DF1 8D 21 D0	STA	\$D021
0D61 8D 21 D0	STA	\$D021	0DF4 8D 55 03	STA	COLSAV
0D64 20 ED 0B	JSR	EGERASE	0DF7 20 39 0D	JSR	BOUNCE
; move bird down, deposi	t sidebar		; cheesy way to exit, but it		
; and move back to top a	gain		ODDO AD 01 D0 BAKUP ODD3 C9 3C ODD5 90 12 ODD7 20 CA 10 ODDA CE 01 D0 ODDD CE 01 D0 ODE0 AD 01 D0 ODE3 8D 01 D4 ODE6 4C D0 D0 ODE9 AD 1F D0 DAKUP ODEC A9 00 ODEE 8D 20 D0 ODF1 8D 21 D0 ODF4 8D 55 03 ODF7 20 39 OD ; cheesy way to exit, but it ; works just fine ODFA 68 ODFB 68 ODFB 68 ODFB 68 ODFG 20 3C OA ODFF 4C 35 09 :	DI A	
UDD/ DESCE	שאו =	-	UDFR 69	PLA DIA	
, sparkie willie you work		SPARKI F	ODEC 20.3C 0A	JSR	BOAT
0D6A EE 01 D0	INC	53249	0DFF 4C 35 09	JMP	NOTAK
0D6D EE 01 D0	IND =  JSR INC INC LDA STA	53249	;		
0D70 AD 01 D0	LDA	53249	; score		
0D73 8D 01 D4	STA	54273	;		

. :	and discussion.			0E97 A9 00 0E99 A9 00 0E99 A9 00 0E99 A9 00 0E90 A9 04 0E40 A85 AB 0E42 A0 00 0E44 B1 A8 66 0E46 C9 5A 0E46 C9 5A 0E46 C9 5A 0E48 E0 02 0E48 E6 AA 0E59 A5 AA 0E59 A5 AA 0E59 A5 AA 0E59 A5 AA 0E57 E9 E6 0E69 A5 A5 AA 0E57 E9 E6 0E69 A9 05 0E60 A9 01			
; increase score ; scores above th	and display n	ew		0E97	DOMOLIK		
OFO2	LIPSCORE	_		0E97 0E97 AQ 00	DONCHK	=	щO
0E02 18	OI GOOTIL	CLC		OEST AS OU	. 03	LDA Sta	#0
0E03 AD 57 03		IDA	SCORE	0E9C 85 AA		CTA	DNFLAG \$AA
0E06 69 0A		ADC	#10	0E9F A9 04		IDA	#4
0E08 8D 57 03		STA	SCORE	0EAO 85 AR		STA	\$AB
0E0B AD 58 03		LDA	SCORE + 1	0EA2 A0 00	ALL	INY	#0
0E0E 69 00		ADC	#0	OEA4 B1 AA	ALL	LDA	
0E10 8D 58 03		STA	SCORE + 1	0EA6 C9 5A		CMP	#90
0E13 38	SC2	SEC		0EA8 F0 16		BEQ	YETMOR
UE14 AD 57 03		LDA	SCORE	0EAA C9 57		CMP	#87
0E17 ED 54 14		SBC	HIGH	0EAC F0 12		BEQ	YETMOR
0E1N ND 30 U3		LDA	SCURE + 1	UEAE E6 AA		INC	\$AA
0E10 E0 33 14		200	MIGH + I	0EB0 D0 02		BNE	NOXAB
0E20 30 00 0E22 AD 57 03		IDV	DOSCH	OEDA 20	NOVAD	INC	\$AB
0E25 8D 54 14		STA	PICH	UED4 30	NUXAB	SEC	04.4
0E28 AD 58 03		IDA	SCORF ± 1	OEDS AS AA		LUA	\$AA # -2000
0E2B 8D 55 14		STA	HIGH + 1	OEDI LO LO		IDA	#<2022 \$AD
0E2E	DOSCR	=	*	0EBR F9 07		SBC	₩~ 2022
0E2E A9 13		LDA	#19	0EBD 90 F5		BCC	#/2022 Al I
0E30 20 D2 FF		JSR	\$FFD2	0EBF 60		RTS	ALL
0E33 A2 0B		LDX	#11	;			
0E35 A9 20		LDA	#32	0EC0 A9 01	YETMOR 03	LDA	#1
0E37 9D 00 04	BLANK	STA	1024,X	0EC2 8D 5B	03	STA	DNFLAG
OESA CA		DEX		0EC5 60		RTS	
OESB TO FA		BPL	BLANK	;	NOXAB  YETMOR 03		
OESE SO DS CC		LDA	#29	; startup	)		
0E3F 20 D2 FF		J2K	\$FFD2 #20				
0E44 20 D2 FF		ICD	#29 \$EED2	; initialize for	a new game		
0E47 AE 57 03		IDX	SCORE	, nece	CTADTUD	_	
0E4A AD 58 03		LDA	SCORE + 1	UECE SU SC	UN SIMPLIOR	JSR	BOAT
0E4D 20 CD BD		JSR	\$BDCD	0EC9 AD 56	14	LDA	BALLY
0E50 A9 20		LDA	#32	0ECC 8D 62	03	STA	BALLS
0E52 20 D2 FF		JSR	\$FFD2	0ECF A9 03	•••	LDA	
0E55 A9 E8		LDA	# <himsg< td=""><td>0ED1 8D 64</td><td>03</td><td>STA</td><td>SLFLAG</td></himsg<>	0ED1 8D 64	03	STA	SLFLAG
0E57 A0 13		LDY	#>HIMSG	0ED4 A9 93		LDA	#\$93
0E59 20 1E AB		JSR	\$AB1E	0ED6 20 D2	FF	JSR	\$FFD2
0E5C AE 54 14		LDX	HIGH	0ED9 A9 00		LDA	#0
UESF AD 55 14		LDA	HIGH+1	0EDB 8D 15	D0	STA	53269
0E05 50 CD RD		JSH	\$BDCD	0EDE 20 69	0A	JSR	DRAWSCRN
0E03 A9 20		LDA	#32	0EE1 20 2E	0E	JSR	DOSCR
0EG/ 20 D2 FF	DALOT	J2H	\$FFD2 # -BLACC	0EE4 A9 01	50	LDA	#1
0E6C A0 14	DALUI	LDA	# <dliviog< td=""><td>0550 40 30</td><td>טט</td><td>SIA</td><td>53248+29 #61</td></dliviog<>	0550 40 30	טט	SIA	53248+29 #61
0E6F 20 1F AB		ISR	\$AR1F	OEEB AD OU	DO.	CTA	#01 E2040
0E71 AE 62 03		IDX	RALIS	OFFE VO ES	00	SIA	53249 #243
0E74 A9 00		LDA	#0	OFFO RD FR	07	STA	2040
0E76 20 CD BD		JSR	\$BDCD	0EF3 8D 3C	03	STA	SHAPE
0E79 A9 20		LDA	#32	0EF6 A9 06	••	LDA	#6
0E7B 20 D2 FF		JSR	\$FFD2	0EF8 8D 3E	03	STA	DELSPEED
0E7E A9 20		LDA	#32	0EFB A9 02		LDA	#2
0E80 4C D2 FF		JMP	\$FFD2	0EFD 8D 46	03	STA	BIRDSPEED
;	011511005			0F00 A9 01		LDA	#1
UE83	ONEMORE	=	•	0F02 8D 51	03	STA	EGUD
0E03 18		CLC	COORE	0F05 8D 53	03	STA	EGLR
0E04 AD 37 US		ADC	SOURE	UFU8 A9 50	00	LDA	#80
0F89 8D 57 03		STA	# I	OFOR OR OF	UJ DO	SIA	XPOS
0E8C AD 58 03		IDA	SCORE ± 1	000 00 00	DU	SIA	53248
0E8F 69 00		ADC	#N	0F10 A9 00	US.	CTA	#0 XP0S+1
0E83		STA	SCORF+1	0F12 0D 40 1	D0	O IA	53264
0E94 4C 13 0F		JMP	SC2	0F18 RD A1	n3	STA	LEX
;				: draw start	ud message	O IA	LLA
; done yet				DECO A9 01 DEC2 8D 5B DEC5 60	03 up message 13 DRMES 05	LDX	#8
;				0F1D BD FD	13 DRMES	LDA	MSG1,X
; make sure everyt	hing's cleaned	l		0F20 9D 4D (	05	STA	1357,X
; out of the playfiel	Ia			0F23 A9 03		LDA	#3

0F25 9D 4D D9	STA	1357 + 54272,X	0FC3 9D 9D 05	STA	1437.X
0F28 BD 06 14	LDA	MSG2,X	0FC6 CA	DEX	•
0F2B 9D 75 05	STA	1397,X	0FC7 10 F4	BPL	ERMES
0F2E A9 03	LDA	#3	0FC9 A9 00	LDA	#0
0F30 9D 75 D9	STA	1397 + 54272,X	0FCB 8D 57 03	STA STA	SCORE SCORE+1
0F33 BD 0F 14	LDA STA	MSG3,X 1437,X	0FCE 8D 58 03 0FD1 4C 2E 0E	JMP	DOSCR
0F36 9D 9D 05 0F39 A9 03	LDA	#3	; exit to basic if f7 pressed	-	DOSON
0F3B 9D 9D D9	STA	1437 + 54272,X	; execute a brk to restore vec	ors,	
0F3E CA	DEX		; clear screen, etc.		
0F3F 10 DC	BPL	DRMES	OFD4 A9 00 BASIC	LDA	#0
; default bounds for whirlybird	1	w0.4	0FD6 85 C6 0FD8 4C C6 00	STA JMP	198 198
0F41 A9 22 0F43 8D 44 03	LDA STA	#34 LLIMIT	UFD8 4C C6 00	JIVIF	130
0F46 A9 00	LDA	#0	interrupt handler		
0F48 8D 45 03	STA	LLIMIT+1			
0F4B A9 20	LDA	#32	; operates as a background p	rocess	
0F4D 8D 42 03	STA	RLIMIT	; during irq intervals. moves ; bird, rotates its shape and ; changes filtering for sounds		
0F50 A9 01	LDA	#1	; DITO, TOTATES ITS SHAPE AND		
0F52 8D 43 03 0F55 8D 15 D0	STA STA	RLIMIT + 1 53269	, changes intening for sounds		
; adjust number of eggs	JIA	30203	OFDB INTERRUP	Γ ==	•
0F58 20 CA 10 KEYIN	JSR	SPARKLE	0FDB AD 69 03	LDA	GOFLAG
OF5B AD OO DC	LDA	56320	0FDE F0 03	BEQ	DINT
0F5E 29 0F	AND	#15	OFEO 4C 31 EA	JMP	\$EA31
0F60 C9 0E	CMP	#14	0FE3 EE 5D 03 DINT 0FE6 AD 5D 03	INC LDA	FCNT FCNT
0F62 F0 07 0F64 C9 0D	BEQ CMP	BALUP #13	0FE9 C9 01	CMP	#1
0F66 F0 0C	BEQ	BALDN	0FEB 90 33	BCC	FDO
0F68 4C 7D 0F	JMP	DEYIN	0FED A9 00	LDA	#0
OF6B EE 62 03 BALUP	INC	BALLS	0FEF 8D 5D 03	STA	FCNT
0F6E 20 6A 0E	JSR	BALOT	0FF2 AD 5F 03	LDA	FDIR
0F71 4C 77 0F	JMP	BEIN BALLS	0FF5 D0 17 0FF7 EE 5E 03 FUP	BNE INC	FDWN FCUT
0F74 CE 62 03 BALDN 0F77 20 6A 0E BEIN	DEC JSR	BALOT	OFFA EE 5E 03	INC	FCUT
0F7A 20 51 0A	JSR	SLOWDOWN	OFFD AD 5F 03	LDA	FCUT
; poll keyboard for f1, f3, f7	0011	02011001111	1000 C9 FA	CMP	#250
0F7D A5 Ć5 DEYIN	LDA	197	1002 B0 02	BCS	FBDN
0F7F C9 04	CMP	#4	1004 90 1A	BCC	FDO
0F81 F0 0B	BEQ CMP	NORM	1006 A9 01 FBDN 1008 8D 5F 03	LDA STA	#1 FDIR
0F83 C9 05 0F85 F0 14	BEQ	#5 EXPRT	1008 4C 20 10	JMP	FDO
0F87 C9 03	CMP	#3	100E CE 5E 03 FDWN	DEC	FCUT
0F89 F0 49	BEQ	BASIC	1011 CE 5E 03	DEC	FCUT
0F8B 4C 58 0F	JMP	KEYIN	1014 AD 5E 03	LDA	FCUT
; whirlybird is expanded	104	<b>110</b>	1017 C9 32	CMP BCS	#50 FDO
0F8E A9 00 NORM 0F90 8D 5C 03	LDA STA	#0 SKILL	1019 BO 05 101B A9 00	LDA	#0
0F93 A9 01	LDA	#1	101D 8D 5F 03	STA	FDIR
0F95 8D 1D D0	STA	53248 + 29	; current filter value		
0F98 4C B9 0F	JMP	STDONE	1020 AD 5E 03 FD0	LDA	FCUT
; whirlybird is small		***	1023 8D 16 D4	STA	54294
OF9B A9 01 EXPRT	LDA STA	#1 SKILL	1026 AD 1F D0 1029 8D 55 03 102C AD 46 03	LDA STA	53279 COLSAV
0F9D 8D 5C 03 0FA0 A9 00	LDA	#0	1029 0D 33 03 102C AD 46 03	LDA	BIRDSPEED
0FA2 8D 1D D0	STA	53248 + 29	102F 4A	LSR	
;- small bird needs wider bound			1030 8D 3E 03	STA	DELSPEED
0FA5 A9 20	LDA	#32	1033 AD 3D 03	LDA	DELAY
0FA7 8D 44 03	STA	LLIMIT	1036 CD 3E 03 1039 B0 06	CMP	DELSPEED DLDONE
0FAA A9 00 0FAC 8D 45 03	LDA STA	#0 LLIMIT+1	1039 BU 06 103B EE 3D 03	BCS INC	DELAY
0FAF A9 37	LDA	#55	103E 4C 60 10	JMP	BACKFORTH
0FB1 8D 42 03	STA	RLIMIT	; rotate bird shape	•	<del>-</del>
0FB4 A9 01	LDA	#1	1041 A9 00 DLDONE	LDA	#0
OFB6 8D 43 03	STA	RLIMIT + 1	1043 8D 3D 03	STA	DELAY
; erase startup message	LDX	#8	1046 AD 3C 03 1049 C9 F9	LDA CMP	SHAPE #249
0FB9 A2 08 STDONE 0FBB A9 20	LDX	#8 #32	104B BO OC	BCS	#249 BKSHAPE
OFBD 9D 4D 05 ERMES	STA	1357,X	104D UPSHAPE	=	*
0FC0 9D 75 05	STA	1397,X	104D EE 3C 03	INC	SHAPE

1050 AD 3C 03		LDA	SHAPE	10CA A2 17	LDX	#23
1053 8D F8 07 1056 4C 60 10		sta Jmp	SPRSHAPE BACKFORTH	10CC A0 00	LDY	#0
1050 4C 00 10	BKSHAPE	LDA	#240	10CE A9 50 10D0 85 B0	LDA STA	#<55296+80 \$B0
105B 8D 3C 03	5.10.11.2	STA	SHAPE	10D2 A9 D8	LDA	#>55296+80
105E D0 ED		BNE	UPSHAPE	10D4 85 B1	STA	\$B1
				10D6 A9 77	LDA	#<55335+80
move bird rig	gnt/left			10D8 85 B4	STA	\$B4
1060	BACKFORTH	=	*	10DA A9 D8 10DC 85 B5	LDA STA	#>55335+80 \$B5
1060 AD 41 03		LDA	LEX		KL =	*
1063 F0 2B		BEQ	LEFT	10DE AD 1B D4	LDA	\$D41B
1065 1065 38	RIGHT	SEC	•	10E1 29 0F	AND	#15
1066 AD 3F 03		LDA	XPOS	10E3 C9 00 10E5 F0 F7	CMP BEQ	#0 SPKL
1069 ED 42 03		SBC	RLIMIT	10E7 C9 02	CMP	#2
106C AD 40 03		LDA	XP0S+1	10E9 F0 F3	BEQ	SPKL
106F ED 43 03 1072 B0 15		SBC	RLIMIT + 1	10EB C9 0B	CMP	#11
1074	RITEOK	BCS	BACKLEFT	10ED F0 EF 10EF 91 B0	BEQ STA	SPKL (\$B0),Y
1074 18	MILON	CLC		10F1 91 B4	STA	(\$B4),Y
1075 AD 3F 03		LDA	XPOS	10F3 18	ČĽĊ	(45.7)
1078 6D 46 03		ADC	BIRDSPEED	10F4 A5 B0	LDA	\$B0
107B 8D 3F 03 107E AD 40 03		STA LDA	XPOS XPOS+1	10F6 69 28 10F8 85 B0	ADC	#40
1081 69 00		ADC	#0	10FA A5 B1	STA LDA	\$B0 \$B1
1083 8D 40 03		STA	XP0S+1	10FC 69 00	ADC	#0
1086 4C BB 10		JMP	GOMOVE	10FE 85 B1	STA	\$B1
1089 1089 A9 00	BACKLEFT	== LDA	<b>*</b> #0	1100 18	CLC	•••
108B 8D 41 03		STA	#U LEX	1101 A5 B4 1103 69 28	LDA ADC	\$B4 #40
108E F0 2B		BEQ	GOMOVE	1105 85 B4	STA	\$B4
1090	LEFT	=	•	1107 A5 B5	LDA	\$B5
1090 38		SEC	1.1.15.40	1109 69 00	ADC	#0
1091 AD 44 03 1094 ED 3F 03		LDA SBC	LLIMIT XPOS	110B 85 B5 110D CA	STA	\$B5
1097 AD 45 03		LDA	LLIMIT+1	110E 10 CE	DEX BPL	SPKL
109A ED 40 03		SBC	XP0S+1	1110 60	RTS	OI II.
109D F0 17		BEQ	BACKRIGHT			
109F B0 15 10A1	LEFTOK	BCS	BACKRIGHT	; sprite shape data		
10A1 38	LLI TON	SEC		, 1111 SP	rdata =	*
10A2 AD 3F 03		LDA	XPOS	1111 00 00 00	.BYTE	0,0,0,0,0,0,0,0,0,0,0
10A5 ED 46 03		SBC	BIRDSPEED	111C 00 00 00	.BYTE	0,0,0,0,0,0,0,0,24,0,
10A8 8D 3F 03 10AB AD 40 03		STA LDA	XPOS XPOS+1	1107 10 10 15	DVTC	8
10AE E9 00		SBC	#0	1127 18 10 1E	.BYTE	24,16,30,24,120,63, 153,252,103,255,23
10B0 8D 40 03		STA	XP0S+1			0
10B3 4C BB 10	DAGUDIOLIT	JMP	GOMOVE	1132 40 FF 02	.BYTE	64,255,2,128,60,1,0,
10B6 10B6 A9 01	BACKRIGHT	LDA	- #1	113D 00 00 18	DVTF	60,0,0,24
10B8 8D 41 03		STA	ĽEX	סו שט שט עכוו	.DTIE	0,0,24,0,1,255,128,0 ,0,0,0
10BB	GOMOVE	===	*	1148 00 00 00	.BYTE	0,0,0,0,0,0,0,0,0,0,0
10BB AD 3F 03		LDA	XPOS	1153 00 00 00	.BYTE	0,0,0,0,0,0,0,0,0,0,0
10BE 8D 00 D0 10C1 AD 40 03		sta Lda	53248 XP0S+1	115E 00 00 00	.BYTE	0,0,0,0,0,0,28,0,4,24
10C4 8D 10 D0		STA	53264	1169 OE 18 70	.BYTE	,32 14,24,112,31,153,24
; must terminate	with jmp to	01/1	00204	1103 02 10 70	.0116	8,55,255,236,96,255
; normal irq entry	point			1174 06 40 3C	.BYTE	6,64,60,2,0,60,0,0,2
10C7 4C				1175 40 00 00		4,0,0
40 31				117F 18 00 00	.BYTE	24,0,0,255,0,0,0,0,0, 0.0
ËÄ				118A 00 00 00	.BYTE	0,0,0,0,0,0,0,0,0,0,0
NOMOVE				1195 00 00 00	.BYTE	0,0,0,0,0,0,0,0,0,0
JMP				11A0 00 00 00	.BYTE	0,0,0,0,28,0,2,24,0,7
\$EA31				11AB EO OF D9	DVTC	,24
; sparkle				TIMD EU UF DS	.BYTE	224,15,217,240,31,2 55,248,56,255,28,48
;				11B6 3C 0C 00	.BYTE	60,12,0,60,0,0,24,0,
10CA	SPARKLE	=	•			0,24,0

11C1	00 7	Ε (	00	.BYTE	0,126,0,0,0,0,0,0,0,0	13A5 00 08 18		.BYTE	0,8,24,16,30,24,120, 63,153,252,103
11CC 11D7				.BYTE .BYTE	0,0,0,0,0,0,0,0,0,0,0 0,0,0,0,0,0,0,0,0	13B0 FF E6 40		.BYTE	255,230,64,255,2,12 8,60,1,0,60,0
11E2				BYTE	0,0,30,0,3,24,0,7,15 2,128,15	13BB 00 18 00		.BYTE	0,24,0,0,24,0,1,255, 128,0,0
11ED	DB E	0 (	OF .	.BYTE	219,224,15,255,240, 28,126,56,24,60,24	13C6 00 00 00 13D0	ENDATA	.BYTE	0,0,0,0,0,0,0,0,0
11F8	00 3	C	00	.BYTE	0,60,0,0,24,0,0,24,0, 0,60	; character d			
1203	00 0	0	00	.BYTE	0,0,0,0,0,0,0,0,0,0,0	;	utu		
120E				.BYTE	0,0,0,0,0,0,0,0,0,0	13D0	CRDATA	= DVTC	* 255 255 105 105 10
1219 1224				.BYTE .BYTE	0,0,0,0,0,0,0,0,0,0,0 30,0,0,92,0,0,249,0,	13D0 FF FF C3 13D8	CRDA1	.BYTE	255,255,195,195,19 5,195,255,255
122F	03 F	F	CO	.BYTE	1,255,128 3,255,192,7,126,224 ,6,60,224,0,60	13D8 FF 3C 18	CHUAT	.BYTE	255,60,24,24,24,24, 60,255
123A	00 C	0	18	.BYTE	0,0,24,0,0,24,0,0,8,0	13E0 13E0 00 3C 7E	CRDA2	= .BYTE	0,60,126,255,255,12
1245	00 0	10	00	.BYTE	0,0,0,0,0,0,0,0,0,0,0	1020 00 00 12			6,60,0
1250				.BYTE	0,0,0,0,0,0,0,0,0,0,0				
125B				.BYTE	0,0,0,0,0,0,0,0,0,24,	; variables &		D) (T	40.00.00.00.00.00.0
1266	00 1	8	00	.BYTE	0,24,0,0,60,0,0,60,0, 0,126	13E8 13 1D 1D	HIMSG	.BYT	19,29,29,29,29,29,2
1271				.BYTE	0,0,126,0,0,126,0,0, 60,0,0	13EF 1D 1D 1D		.BYT	29,29,29,29,29,2
127C	18 (	)0	00	.BYTE	24,0,0,24,0,0,24,0,0, 0,0	13F6 48 49 47 13FC 00		.ASC .BYT	"HIGH: " 0
1287				.BYTE	0,0,0,0,0,0,0,0,0,0	13FD 06 31 20	MSG1	.BYT	6,49,32,14,15,18,13,
1292 129D				.BYTE .BYTE	0,0,0,0,0,0,0,0,0,0,0 0,0,0,0,0,0,0,120,0,0	1406 06 33 20	MSG2	.BYT	1,12 6,51,32,5,24,16,5,18
12A8	00 (	00	9F	.BYTE	,58 0,0,159,0,1,255,128,	140F 06 37 20	MSG3	.BYT	,20 6,55,32,17,21,9,20,3
12B3	7F S	-n	07	.BYTE	3,255,192,7 126,224,7,60,96,0,6				2,32
					0,0,0,24,0	1418	BLMSG	=	*
12BE				.BYTE	0,24,0,0,16,0,0,0,0,0 ,0	1418 13 1D 1D		.BYT	19,29,29,29,29,29,2 9,29,29,29,29,29
12C9				.BYTE .BYTE	0,0,0,0,0,0,0,0,0,0,0 0,0,0,0,0,0,0,0,0	1424 1D 1D 1D		.BYT	29,29,29,29,29,2 9,29,29,29
12D4 12DF				BYTE	0,0,0,0,0,0,0,0,0,0,0,0	142F 1D 1D 1D		.BYT	29,29,29,29,29
					192,1	1434 45 47 47		.ASC	"EGGS: "
12EA	19	E0	07	.BYTE	25,224,7,219,240,15 ,255,240,28,126,56	143A 00 :		.BYT	0
12F5	18	3C	18	.BYTE	24,60,24,0,60,0,0,24 ,0,0,24	; SID chip valu	es		
1300	00	00	3C	.BYTE	0,0,60,0,0,0,0,0,0,0,	143B	SID	=	•
4000	00	^^	00	DVTE	0	143B 0B 07 05		.BYT .BYT	11,7,5,200,64,10,0 155,3,5,200,20,15,2
130B 1316				.BYTE	0,0,0,0,0,0,0,0,0,0,0 0,0,0,0,0,0,0,0,0	1442 9B 03 05		.DII	40
1321				.BYTE	0,0,0,56,0,0,24,64,7,	1449 FF FF 00		BYT	255,255,0,0,128,0,0
132C	0F	9B	F0	.BYTE	24,224 15,155,240,31,255,2	1450 00 64 F3		.BYT	0,100,243,15+16 +32
1337	00	00	3C	.BYTE	48,56,255,28,48,60 12,0,60,0,0,24,0,0,2	; assorted varia	ables		
1342	7E	00	00	.BYTE	4,0,0 126,0,0,0,0,0,0,0,0,0,0	; ; high score			
134D	00	ດຄ	00	.BYTE	,0 0,0,0,0,0,0,0,0,0,0,0,0	1454 00 00 ; default num of (	HIGH eaas	.BYT	0,0
1358	00	00	00	.BYTE	0,0,0,0,0,0,0,0,0,0,0	1456 OA	BALLY	.BYT	10
1363				.BYTE	0,56,0,4,24,32,14,24 ,112,31,153	; sprite register 1457	SPRSHAPE	==	2040
136E	F8	37	FF	.BYTE	248,55,255,236,96,2 55,6,64,60,2,0	; sprite shape 1457	SHAPE	=	828
1379	3C	00	00	.BYTE		1457 1457	DELAY DELSPEED	=	829 830
1384	00	00	00	.BYTE	0,0,0,0,0,0,0,0,0,0,0	; bird x position	DELOI EED		000
138F	00	00	00	.BYTE	0,0,0,0,0,0,0,0,0,0,0	1457	XPOS	=	831
IJYA	UU	υÜ	UU	.011E	24				

. blad tr. n			
; bird I/r flag 1457	LEV		000
; r bird boundary	LEX	_	833
1457	RLIMIT	===	834
; I bird boundary			٠.
1457	LLIMIT	=	836
1457	BIRDSPEED	=	838
1457	COUNT	=	839
; for drawing scre 1457	DLIMIT	_	841
; ditto	DEIIVIII		041
1457	CHAR	=	843
; ditto			
1457	COL	=	844
1457 ; egg up/down fla	TEMP	_	847
1457	EGUD	=	849
; egg I/r flag	LUOD		010
1457	EGLR	=	851
; collision info			
1457	COLSAV	=	853
; collision flag 1457	COLFLAG	_	854
; current score	COLI LAG		004
1457	SCORE	_	855
; done/not done			
1457 , skill level	DNFLAG	=	859
, Skill level 1457	SKILL	_	860
; filter counter	SMLL	_	000
1457	FCNT	=	861
; filter cutoff			
1457	FCUT	=	862
; filter u/d flag 1457	FDIR	_	863
1457	FCN1	=	864
1457	RING	_	865
; num of eggs left			
1457	BALLS	===	866
1457 1457	PFLAG	=	867
1457	SLFLAG BNOTE	=	868 869
1457	GFLAG	_	872
; pause flag			٠, ٣
1457	GOFLAG	=	873

# Miami Ice Source Code

Source code by Kevin Mykytyn

0801	*=	2049	085C D0 FA		BNE	WTER
			085E AD 1F D0		LDA	53279
miami ice			0861 AD 1E D0		LDA	53278
	CR = CARTX = CARTY = C	_	0864 AD 01 DC		LDA	\$DC01
0801 SC	R =	5	0867 29 10 0869 D0 E8		BNE	#16 Waitbut
	ARTX =	38 60	086B A9 40		LDA	#64
	TARTY = ALLS =	0U 4	086D 8D 04 D4		STA	54276
0801 W/	AX =	70	0870 A9 41		LDA	#65
0801 MI	IN =	185	0872 8D 04 D4		STA	54276
	MP =	2	0875	MAIN	=	*
	MP0 =	3	0875 20 1D 09		JSR	TOCK
0801 FR	REEO =	251	0878 20 48 09		JSR	CRASH
	Mer =	248	087B CE 21 13		DEC	JOYL
	CK =	247	087E D0 09		BNE	NOJOY
0801 SC	CORE =	195	0880 AD 22 13		LDA	JOYH
	VES =	189	0883 8D 21 13 0886 20 95 0E		STA JSR	JOYL JOYSTICK
0801 LE	EVEL =	180	0889	NO IOV	Jon	*
DACIC line to start a	nragram		0889 CE 25 13	NOJOY	DEC	M0VL
; BASIC line to start (	piogram		088C D0 0C		BNE	NOMOVE
, 0801 OC 08 OA	RYT	12,8,10,0,158			LDA	MOVH
0806 20 32 30	.BYT .ASC .BYT	" 2062"	088E AD 26 13 0891 8D 25 13 0894 20 16 0E 0897 20 4F 0D 089A		STA	MOVL
080B 00 00 00	.BYT	0,0,0	0894 20 16 0E		JSR	MOVCAR
:		-1-1-	0897 20 4F 0D		JSR	CALC
080E 20 E0 0E	JSR JSR LDA LDY LDA STA DEY BPL	SETSPRITE	0897 20 4F 0D 089A 089A 00 00 089C 88 089D D0 FD 089F 4C 75 08 08A2 00 05 00 08A9 00 1E 00 08B0 00 0A 00 08B7 00 05 F1	NOMOVE	==	*.
0811 20 BC 0D	JSR	RASTSET	089A AO OO		LDY	#0
0814 A9 00	LDA	#0	089C 88	WT	DEY	MET
0816 A0 18	LDY	#24	089D DO FD		BNE JMP	wt Main
0818 B9 A2 08 D	LUA	SID,Y	0897 40 75 08	ein	DVT	0,5,0,1,0,25,240
081B 99 00 D4	SIA	34272,1	08A2 00 03 00 08A0 00 1F 00	SID	RYT	0,3,0,1,0,23,240
081E 88 081F 10 F7	BPL	D	0880 00 12 00		BYT	0,30,0,0,0,137,0 0,10,0,0,0,43,0
0004 00 04 00 NI	CINCARAL ICD	STARTGAME	08B7 00 05 F1	SID	BYT	0,5,241,79
0821 20 C4 08 NI 0824 20 75 0A S	TARTROUN JSR	DRAWSCREEN	:			
0827 AD 01 DC LE	ETGO LDA	\$DC01	; output a number			
082A 29 10	AND	#16	;			
082C F0 F9	BEQ	LETGO	08BB	RBDCD	=	*
082E A2 00	LDX	#0	08BB 20 CD BD			\$BDCD
0830 A0 10	LDY	#16	; 08BB 08BB 20 CD BD 08BE A9 20 08CO 20 D2 FF		LDA	#" " \$FFD2
0832 18	CLC	STARTGAME DRAWSCREEN \$DC01 #16 LETGO #0 #16  \$FFF0 # <mess4 #="">MESS4</mess4>	08C0 20 D2 FF 08C3 60		JSR RTS	<b></b>
0833 20 F0 FF	JSK	# -MECCA	0003 00		nio	
0030 A9 E2	LDA	#>MESS4	start game			
0030 AU UD 0834 20 1F AR	JSR	\$AB1E				
083D A6 B4	IDX	LEVEL	08C4	STARTGAME	=	*
083F F8	INX		08C4 A9 00		LDA	#0
0840 A9 00	LDA	#0	08C6 85 C3		STA	SCORE
0842 20 CD BD	JSR	\$BDCD	08C8 85 C4		STA	SCORE+1
0845 A9 C8	LDA	#200	08CA A9 00		LDA	#0
0847 85 F8	STA	TIMER	08CC 85 B4		STA	LEVEL
0849 A9 00	LDA	#0	08CE A9 03		LDA	#3
084B 85 F9	STA	IIMER+1	08D3 V0 U3		sta LDA	LIVES #"{CLR}"
0821 20 04 08 N 0824 20 75 0A S 0827 AD 01 DC LE 082A 29 10 082C F0 F9 082E A2 00 0830 A0 10 0832 18 0833 20 F0 FF 0836 A9 E2 0838 A0 0B 0838 A9 E2 0839 A9 E8 0830 A6 B4 0836 A9 E2 0837 E8 0840 A9 00 0842 20 CD BD 0845 A9 C8 0847 85 F8 0849 A9 00 0848 85 F9 0840 B2 D6 0D R 0850 20 52 0A 0853 20 95 0C W 0856 A2 64	itoti JSK	INITKUUNU	08C4 08C4 A9 00 08C6 85 C3 08C8 85 C4 08CA A9 00 08CC 85 B4 08CE A9 03 08D0 85 BD 08D2 A9 93 08D4 20 D2 FF 08D7 A2 03 08D9 8E 21 D0 08DC E8		JSR	# {ULN} \$FFD2
0050 20 52 UA	JSK DI TIIDTIN	IUNZIUK	00D4 20 D2 FF		LDX	#3
0003 20 93 UE V	AVIION 190	#100	08D9 8F 21 D0		STX	53281
0858 88 V	VTER DEY	ii 100	08DC E8		INX	
0859 D0 FD	BNE	WTER	08DD 8E 20 D0		STX	53280
085B CA	DEX		08E0 A2 07		LDX	#7
	- <del>-</del> - ·					

08E2 A0 0B		LDY	#11	095B	18		CLC	
08E4 18		CLC		095C	69 01		ADC	#1
08E5 20 F0 FF		JSR	\$FFF0	095E	18	CHIT2	CLC	
08E8 A9 EC		LDA	# <mess5< td=""><td>095F</td><td>65 02</td><td></td><td>ADC</td><td>TEMP</td></mess5<>	095F	65 02		ADC	TEMP
08FV VO 08		LDY	#>MESS5	0961	8D 00 D4		STA	54272
OBEC 20 1E AB	MD	JSH	\$AB1E	0964	AD 1F DO		LDA	53279
08EF A3 B4	VP	LDA	LEVEL	0967	29 08		AND	#8
00F1 10 00F2 60 21		ADC	440	0969	DU 14		RNF	DIDCKASH
00F2 09 31		STA	#49 1447	0908	AD IE DU		LUA	532/8 TEMP
08F7 AQ 0A		IDA	#10	0000	20 04		SIA	1 EIVIP
08F9 20 45 0A		ISB	BIGDEI AV	0070	CO 0A		CMD	#10 #10
08FC AD 01 DC		IDΔ	\$DC01	0374	FN NO		BEU	MIDCDV6H
08FF 4A		LSR	45001	0976	A5 02		IDA	TEMP
0900 BO OA		BCS	NUP	0978	29 00		AND	#12
0902 A5 B4		LDA	LEVEL	097A	C9 OC		CMP	#12
0904 C9 06		CMP	#6	097C	F0 3A		BEQ	MADIT
0906 F0 E7		BEQ	VP	097E	60		RTS	
0908 E6 B4		INC	LEVEL	097F	A9 40	DIDCRASH	LDA	#64
090A 10 E3		BPL	VP	0981	8D 04 D4		STA	54276
090C 4A	NUP	LSR		0984	A9 80		LDA	#128
090D BO 08		BCS	NDOWN	0986	8D 12 D4		STA	54290
090F A5 B4		LDA	LEVEL	0989	A9 81		LDA	#129
0911 F0 DC		BEQ	VP	098B	8D 12 D4		STA	54290
0913 C6 B4		DEC	LEVEL	098E	A9 08		LDA	#8
0915 10 D8		BPL	VP	0990	8D 20 13		STA	SPRPTR
0917 4A	NDOWN	LSR		0993	A9 05	EXPL	LDA	#5
0918 4A		LSR		0995	20 45 OA		JSR	BIGDELAY
0919 4A		LSR		0998	AD 20 13		LDA	SPRPTR
091A B0 D3		BCS	VP	099B	C9 0D		CMP	#13
091C 60		RTS		099D	F0 06		BEQ	FIN
;				099F	EE 20 13		INC	SPRPTR
; update timer				09A2	4C 93 09		JMP	EXPL
0040	TOOL			09A5	A9 07	FIN	LDA	#7
0910	IUCK	=	TIO1/	09A7	8D 15 D0		STA	53269
0910 00 17		DEC	HOTOGRAM	UYAA	A9 64		LDA	#100
091F DU 20		BNE	NOIDUWN	USAC	20 45 UA		JSH	BIGDELAY
0921 A9 C0		CTA	#200 TIOK	USAF	CO RD		DEC	LIVES
0923 03 F7 0025 A5 EQ		SIA	TIMED	0981	FU DA		RECI	FINGAME
0923 A3 F0		ODA	TIMEN	0000	60		PLA	
0929 FO 1C		BEO.	NOTDOWN	0304 0005	4C 4D 08		IMD	DECET
092B A5 F8		IDΔ	TIMER	NORR	40 4D 00	MADIT	TIDA	HEN HESEI
092D 38		SEC	INVICIT	Vabo	SU UV UV	IVIADIT	CTA	#0 <del>4</del> 5/276
092F F9 01		SBC	#1	nggn	AQ NN		I DV	#N
0930 85 F8		STA	TIMER	09RF	85 02		STA	TEMP
0932 A5 F9		LDA	TIMER + 1	09C1	A5 FR	MADE	IDΔ	TIMER
0934 E9 00		SBC	#0	09C3	05 F9	MINUL	ORA	TIMER + 1
0936 85 F9		STA	TIMER + 1	09C5	FO 32		BFQ	FINBONIIS
0938 A2 18		LDX	#24	09C7	A5 F8		LDA	TIMER
093A AO 07		LDY	#7	09C9	38		SEC	
093C 18		CLC		09CA	E9 01		SBC	#1
093D 20 F0 FF		JSR	\$FFF0	09CC	85 F8		STA	TIMER
0940 A6 F8		LDX	TIMER	09CE	A5 F9		LDA	TIMER+1
0942 A5 F9		LDA	TIMER+1	09D0	E9 00		SBC	#0
0944 20 BB 08		JSR	RBDCD	09D2	85 F9		STA	TIMER+1
0947 60	NOTDOWN	RTS		09D4	A5 B4		LDA	LEVEL
·	_			09D6	85 03		STA	TEMP0
; cneck on a cras	n			09D8		REPEAT	_	*
0040	004011		_	09D8	Fe C3		INC	SCORE
0040 40 00 40	CHASH	=	VELV	U9DA	DO 02		BNE	NOTH
0040 AU 23 13		LUA	VELX	USDC	ED C4	NOTE	INC	SCORE+1
004D 40 CC		RLF	UHII	USDE	20 52 0A	NUIH	JSR	SCROUT
034D 49 FF		EUK	#200	U9E1	E0 U2		INC	IEMP
004F 10		OLU	ш1	ひりこう	AD UZ		LUA	IEMP
0950 09 01 0052 85 02	CHIT	AUU CT4	IF I	いみたり	OU UI U4		SIA	542/3
0954 AD 24 12	UNIT	O IA	I EIVIF	ODEA	M9 4U		LUA	#04 E4070
0957 10 05		RDI	VELT CHIT2	USEA	0U U4 U4 AG A1		DIA.	04276 #65
0959 49 FF		FOR	#255	UOEE	MD 1/4 I		CTA	#00 54076
08E2 A0 0B 08E4 180 FF 08E8 A9 EC 08EA A0 0B 08EC 20 18 AB 08E1 18 B 08E7 A5 B4 08E1 18 B 08E7 A9 0A 08E9 A0 A7 05 08E7 A9 0A 08E9 20 45 0A 08E0 AD 09E AB 08E0 AD 09E AD		LUN	#2JJ	USCL	UU U4 U4		SIA	34270

				0A81 8D 20 DO 0A84 A2 18 0A86 A0 00 0A88 18 0A89 20 FO FF 0A8E A0 0B 0A99 20 FO FF 0A8E A0 71 0A8E A0 B 0A90 20 1E AB 0A90 20 1E AB 0A90 A0 A0 0A97 99 00 04 0A97 99 00 DB 0AA2 99 99 00 B 0AA2 99 99 00 DB 0AA2 99 99 00 DB 0AA2 99 99 00 DB 0AA2 99 90 0D DB 0AA2 99 PB 0AA6 10 ED 0AA6 A0 FF 0AA6 A0 DB 0AA6 A0 FF 0AB6 A0 A0 DB 0AB6 A0 A0 CAB6 A0 CAB6 A0 CAB6 A0 CAB6 A0 CAB6 A0 CAB6 AD CAB6 A0 CAB6 AD			
09F2 C6 03		DEC	TEMP0	0A81 8D 20 D0		STA	53280
09F4 10 E2		BPL	REPEAT	0A84 A2 18		LDX	#24
09F6 4C C1 09		JMP	MADE	0A86 A0 00		LDY	#0
09F9 A9 40	FINBONUS	LUA	#64 54076	0A88 18		ICD	<b>GEEEU</b>
09FB 8D 04 D4		INC	14270 LEVEL	0A09 20 F0 FF 0A8C AQ 71		IDA	# <mfss1< td=""></mfss1<>
0400 A9 64		I DA	#100	OASE AO OB		LDY	#>MESS1
0A02 20 45 0A		JSR	BIGDELAY	0A90 20 1E AB		JSR	\$AB1E
0A05 A9 05		LDA	#5	0A93 A0 27		LDY	#39
0A07 8D 01 D4		STA	54273	0A95 A9 A0	TOPBOT	LDA	#160
0A0A 4C 24 08	FINICANE	JMP	STARTHOUND	0A97 99 00 04		SIA	1024,1 1044 V
0AUD 20 32 UA	FINGAIVIE	1 DV	#N	0A9A 99 90 07		IDA	#WALLS
0A12 8D 15 D0		STA	53269	0A9F 99 00 D8		STA	55296,Y
0A15 A2 OC		LDX	#12	0AA2 99 98 DB		STA	56216,Y
0A17 A0 05		LDY	#5	0AA5 88		DEY	
0A19 18		CLC	*****	0AA6 10 ED		BPL	TOPBOT
0A1A 20 F0 FF		JSR	\$FFFU # -MECCO	0AA8 A9 00		CTA	#U EREEN
DATE AN OR		LDA	# <ness2< td=""><td>DAAC 85 FD</td><td></td><td>STA</td><td>FRFF0+2</td></ness2<>	DAAC 85 FD		STA	FRFF0+2
0A21 20 1F AB		JSR	\$AB1E	0AAE A9 04		LDA	#4
0A24 A2 0B		LDX	#11	0ABO 85 FC		STA	FREE0+1
0A26 20 38 0A		JSR	LINOUT	0AB2 A9 D8		LDA	#216
0A29 A2 0D		LDX	#13	0AB4 85 FE		SIA	FREE0+3
UA2B 2U 38 UA	WITDII	JSK	EINUUT EDC01	0AB0 A2 10	SIDES	LDX	#24 #0
0A2E AD 01 DC	WIDU	AND	#16	NARA A9 AN	SIDES	LDA	#160
0A33 D0 F9		BNE	WTBU	OABC 91 FB		STA	(FREEO),Y
0A35 4C 21 08		JMP	NEWGAME	0ABE A0 27		LDY	#39
0A38 A0 05	LINOUT	LDY	#5	0AC0 91 FB		STA	(FREEO),Y
0A3A 18		CLC	<b>A</b> CCC0	0AC2 A9 04		LDA	#WALLS (FREE0 + 2),Y
0A3B 20 F0 FF		JSH	\$FFFU # ~MECC2	0AC4 91 FD		LDV	(FREEU + 2),1
0A3E A9 C1		LDA	# <iviesss #&gt;MFSSS</iviesss 	0AC8 91 FD		STA	(FREE0 + 2),Y
0A42 4C 1E AB		JMP	\$AB1E	OACA A5 FB		LDA	FREE0
0A45 85 02	BIGDELAY	STA	TEMP	OACC 18		CLC	
0A47 A9 00		LDA	#0	0ACD 69 28		ADC	#40
0A49 85 A2	051	SIA	162	UACH 85 FB		SIA	FREEU EDEEO 1
0A4B A5 A2	DEL	CMD	TEMP	0AD1 A3 FC		ADC	#N
0A4D 03 02 0A4F D0 FA		BNF	DEL	0AD5 85 FC		STA	FREEO+1
0A51 60		RTS		OAD7 A5 FD	•	LDA	FREE0+2
;				0AD9 18		CLC	
; output the score	•			0ADA 69 28		ADC	#40
, 0A52 AD DE	CCDOLIT	LDA	#"(CVN)"	DADE AS FE		IDA	FREED+2
0A54 20 D2 FF	SCHOOL	JSR	\$FFD2	0AE0 69 00		ADC	#0
0A57 A2 18		LDX	#24	0AE2 85 FE		STA	FREE0+3
0A59 A0 17		LDY	#23	OAE4 CA		DEX	OIDEO
0A5B 18		CLC	ecco	0AE5 D0 D1		RNF	SIDES
0A5C 20 F0 FF		1DX	⊅rrru SCORF	0AE7 A9 00 0AE9 85 FR		STA	FRFFO
0ASF AG CG		I DA	SCORF+1	0AEB A9 04		LDA	#4
0A63 20 BB 08		JSR	RBDCD	OAED 85 FC		STA	FREE0+1
0A66 A2 18		LDX	#24	OAEF A6 B4		LDX	LEVEL
0A68 A0 26		LDY	#38	0AF1 E0 07		CPX	#7
0A6A 18		CLC	<b>CEECO</b>	OAF3 90 02		BUC	FINE #6
NAGE AS RD		1 DX	LIVES	0AF7 BD 09 ND	FINE	LDA	ORDER.X
0A70 A9 00		LDA	#0	OAFA OA		ASL	
0A72 4C CD BD		JMP	\$BDCD	OAFB AA		TAX	
				OAFC BD FB OC		LDA	INDEX,X
draw a screen				UAFF 85 U3		SIA	TEMP0 INDEX + 1,X
0475	DRWNGCDEE	_	•	ODUI BU FU UU		STA	TEMP0+1
0A75 A9 93	DIMPROUNCE	LDA	#"{CLR}"	0806 A0 FF		LDY	#255
0A77 20 D2 FF		JSR	\$FFD2	0B08 C8	DRAWLOOP	INY	
0A7A A9 01		LDA	#1	0B09 B1 03		LDA	(TEMP0),Y DOIT
0A7C 8D 21 D0		STA	53281	0808 D0 19		RNF	ווטט
UA/F A9 U3		LUA	#3	OAFA OA OAFA BA OAFC BD FB OC OAFF 85 03 OBO1 BD FC OC OBO4 85 04 OBO6 AO FF OBO8 B1 03 OBO8 D0 19 OBOD C8		11.4.1	

080E B1 03 0810 8D 02 D0 0813 8D 04 D0		LDA Sta Sta	(TEMP0),Y 53250 53252	0C37 D8 FF FF 0C3F 4B FF 86	DRAWDIR SCREEN1	.WORD .BYT	- 40, - 1,40,1 75,255,134,205,0,55 .180
0B16 8D 00 D0 0B19 C8		STA INY	53248	0C46 6A D1 A3	SCREEN2	.BYT	106,209,163,230,10 2,198,144,163,230
0B1A B1 03 0B1C 8D 03 D0		LDA STA	(TEMP0),Y 53251	0C4F 65 86 C5		.BYT	101,134,197,227,20 4,163,230,0,251,66
0B1F 8D 05 D0 0B22 8D 01 D0		STA STA	53253 53249	0C59 45 EC 47	SCREEN3	.BYT	69,236,71,37,238,13
0B25 60		RTS		0C63 C2 02 B4		.BYT	9,106,67,205,170 194,2,180,69,101
0B26 84 02 0B28 48	DOIT	STY Pha	TEMP	0C68 00 2D C8 0C6B 68 C3 45	SCREEN4	.BYT .BYT	0,45,200 104,195,69,167,235,
0B29 48 0B2A 29 1F		PHA AND	#31	0C74 C3 E6 C3		.BYT	195,131,228,131 195,230,195,131,22
082C 8D 28 13 0B2F 68		STA PLA	NUM	0011 00 20 00		.511	6,161,4,131,71,230, 131
0B30 4A 0B31 4A		LSR LSR		0C7F C3 E3 C3		.BYT	195,227,195,69,229,
0B32 4A		LSR		0C88 AA 83 C6		.BYT	171,131,198,131 170,131,198,131,17
0B33 4A 0B34 29 06		LSR AND	#6				0,131,198,69,101,13 1,0,250,188
0836 AA 0837 AO OO		TAX LDY	#0	0C95 66 C6 A1	SCREEN5	.BYT	102,198,161,227,16 2,200,225,39,226,16
0B39 68 0B3A 10 02		PLA BPL	NODRAW	0C9F 65 C4 45		DVT	1
0B3C A0 A0	NODD#W	LDY	#160			.BYT	101,196,69,36,225,9 9,5,234,194,130,234
0B3E 8C 29 13 0B41 A5 FB	DRAW2	STY LDA	BLOCK FREE0	OCAA 81 C1 E5		.BYT	129,193,229,70,129, 5,227,6,228,161,194
0B43 18 0B44 7D 37 0C		CLC ADC	DRAWDIR,X	0CB5 82 AD 81		.BYT	130,173,129,193,16 6,194,130,164,132,2
0B47 85 FB 0B49 A5 FC		sta Lda	FREEO + 1	OCBF A1 82 A1		.BYT	25 161,130,161,225,12
0B4B 7D 38 0C 0B4E 85 FC		ADC STA	DRAWDIR+1,X FREE0+1	000: AT 02 AT		.511	9.104.5.195.161.225
0B50 A0 00		LDY	#0	OCCA EA C1 81		.BYT	,195 234,193,129,226,6,1
0852 AD 29 13 0855 F0 11		LDA BEQ	BLOCK NOBL	OCD3 65 D3 E9	SCREEN6	.BYT	93,0,220,70 101,211,233,100,22
0B57 91 FB 0B59 A5 FB		sta Lda	(FREEO),Y FREEO	OCDB 8E A2 24		.BYT	6,129,193,238 142,162,36,170,36,1
0B5B 85 FD 0B5D A5 FC		STA LDA	FREE0+2 FREE0+1	OCE5 00 73 89		.BYT	64,201,232,100,236
0B5F 18		CLC		OCE8 46 F2 82	SCREEN7	.BYT	0,115,137 70,242,130,225,194,
0B60 69 D4 0B62 85 FE		ADC STA	#212 FREE0+3	OCF1 A2 C4 AC		.BYT	236,197,226,193 162,196,172,194,16
0B64 A9 04 0B66 91 FD		LDA STA	#WALLS (FREE0+2),Y	OCFB 3F OC 46	INDEX	.WORD	1,130,177,0,45,200 SCREEN1,SCREEN2,
0B68 A4 02 0B6A CE 28 13	NOBL	LDY DEC	TEMP NUM				SCREEN3,SCREEN4, SCREEN5,SCREEN6
0B6D D0 D2		BNE	DRAW2	0D07 E8 0C			SCREEN7
086F F0 97 0B71 12 9F 54	MESS1	BEQ .ASC	Drawloop "{rvs}{cyn}time	0D09 00 06 01 ;	UNDER	.BYT	0,6,1,5,2,4,3
			R: SCORE: CARS: {L EFT}"	; friction			
0B9B 94 20 00 0B9E 12 9F 20	MESS2	.BYT .ASC	148,32,0	0D10 0D10 CE 27 13	FRICTION	= DEC	* FRICT
			"{RVS}{CYN}{OFF }GAME OVER - PRE	0D13 D0 39		BNE	NOFRICT
			SS FIREBUTTON{RV S} "	0D15 A9 07 0D17 8D 27 13		LDA STA	#7 FRICT
0BC0 00 0BC1 12 9F 20	MESS3	.BYT .ASC	0 " "{RVS}{CYN} "	0D1A CE 2A 13 0D1D D0 0F		DEC BNE	SLOWL NOSLOW
OBE1 00 OBE2 9C 12 53	MESS4	.BYT .ASC	0` "{PUR}{RVS}SCRE	0D1F A9 4B 0D21 8D 2A 13		LDA STA	#75 SLOWL
OBEB 00	WILOU !	.BYT	EN "	0D24 AD 26 13		LDA	MOVH #7
JULU VV		וום.	0 3 DOWN} {12 LEFT	0D27 C9 07 0D29 F0 03		CMP BEQ	NOSLOW
0C17 11 11 11		.ASC	}{BLU} SCREEN 1" "{3 DOWN}{12 LEF	0D2B EE 26 13 0D2E AD 23 13	NOSLOW	inc LDA	MOVH VELX
			T}PRESS FIREBUTT On"	0D31 F0 0B 0D33 10 06		BEQ BPL	DY POS1
0C36 00		.BYT	0	0D35 EE 23 13		INC	VELX

### Chapter 3

0D38 4C 3E 0D 0D38 CE 23 13 0D3E AD 24 13 0D41 F0 0B 0D43 10 06 0D45 EE 24 13 0D48 4C 4E 0D 0D4B CE 24 13	POS1 DEC DY LDA BEC BPL INC JM POS2 DEC NOFRICT RTS	P DY C VELX A VELY D NOFRICT VELY VELY P NOFRICT VELY C VELY	0DC8 8D 14 03 0DCB A9 0D 0DCD 8D 15 03 0DD0 A9 81 0DD2 8D 1A D0 0DD5 60 initialize start of round	STA LDA STA LDA STA RTS	\$0314 #>SPRMOV \$0315 #129 53274
Calculate the special Color of	Ed CALC = LDX	*  X SPRPTR A VELX C C TABX,X IP #MAX C YESX IP #MIN C NOTX A VELY C TABY,X IP #MAX C YELY C TABY,X IP #MAX C YESY IP #MIN C NOTY A VELY C TABY,X IP #MAX C YESY IP #MIN C NOTY A VELY S T 1,0,255,255,255,0,1,1,1,0	ODD6   INTROUND   ODD6 A9 00   ODD8 8D 1C 13   ODD8 8D 23 13   ODDE 8D 24 13   ODE1 A9 26   ODE3 8D 1B 13   ODE6 A9 3C   ODE8 B0 1E 13   ODE6 A9 07   ODED 8D 20 13   ODF0 A5 A2   ODF2 C5 A2   ODF2 C5 A2   ODF4 F0 FC   ODF6 A9 0F   ODF8 BD 15 D0   ODF8 BD 21 13   OE00 BD 22 13   OE00 BD 22 13   OE00 BD 27 13   OE00 BD 27 13   OE00 BD 27 13   OE10 A9 37   OE12 BD 24 13   OE15 BD 24 13   OE15 BD 24 13   OE15 BD 24 13   OE16 BD 26 13   OE16 BD 27 13   OE17 BD 28 13   OE18 BD 28 13   OE19 BD 28 13   OE19 BD 24 13   OE19 BD 25 13   OE19 BD 24 13   OE19 BD 24 13   OE19 BD 25 13   OE19 BD 26 13   OE19 BD 26 13   OE19 BD 27 13   OE19 BD 28	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	#0 \$PRX + 2 VELX VELY VELY \$SPRX + 1 #STARTX \$PRY + 1 #7 \$PRPTR 162 162 162 WTSYNC #15 53269 #100 JOYL JOYH #7 MOVL MOVH #7 #7 #55 \$LOWL
D87 D87 A9 01 D89 8D 19 D0 D80 AD 18 13 D86 8D 08 D7 D92 AD 1E 13 D95 8D 07 D0 D98 AD 1C 13 D99 0A D990 0A D990 0A D990 0A D990 AD 10 D94 18 DDA1 AD 20 13 DDA4 18 DDA5 69 D4 DDA7 8D FB 07 DDAA A9 FA DDAC 8D 12 D0 DDAF AD 0D DC DDB2 29 01 DB4 F0 03 DDB4 F0 03 DDB6 4C 31 EA DDBC AB DBC AB 1B DDBC AB 1B DBC AB 1	SPRMOV = LD. STI	# #01 # \$D019 # \$PRX + 1 # \$3254 # \$274 # \$3255 # \$PRY + 1 # \$3255 # \$PRX + 2 # \$3264 # \$PRPTR # \$250 # \$2	CE16 CO 10 OD CE19 AD 23 13 OE1C 30 1A OE1E 18 OE1E 6D 1A 13 OE2E AD 1A 13 OE2E AD 1B 13 OE2B AD 1C 13 OE3A 69 OD CE3A BD 1C 13 OE3B AD 1C 13 OE3C AD 1A 13 OE4C AD 1A 13 OE4C AD 1A 13 OE4C AD 1B 13 OE4C AD 1C 13 OE5C DE 1C 15	JSR LDA BMI CLC STA ADC STA ADC STA ADC STA ADC STA LDA SEC SEC STA LDA SEC STA LDA SEC STA LDA SEC STA LDA CLC STA LDA CLC SEC STA ADC STA LDA CLC SEC STA ADC STA LDA CLC SEC STA ADC SEC STA LDA CLC SEC STA ADC SEC STA A	FRICTION VELX SUBX SPRX SPRX SPRX SPRX+1 #0 SPRX+2 #0 SPRX+2 #0 SPRX+2 #0 SPRX+2 #1 TEMP SPRX TEMP SPRX SPRX SPRX+1 #0 SPRX+2 #0 SPRX SPRX SPRX SPRX SPRX SPRX SPRX SPRX

0E60 8D 1D 13		STA	SPRY	OFFR	99 00	36		STA	13568 + 256,Y
0E63 AD 1E 13		LDA	SPRY+1		B9 5A			LDA	SPRDEF + 512,Y
0E66 69 00		ADC	#0	0EF1	99 00	37		STA	13568 + 512,Y
0E68 8D 1E 13		STA	SPRY+1	0EF4	B9 5A	12		LDA	SPRDEF + 768,Y
0E6B AD 1F 13		LDA	SPRY+2		99 00	38		STA	13568 + 768,Y
0E6E 69 00		ADC	#0	0EFA	A9 00			LDA	#0
0E70 8D 1F 13		STA	SPRY+2	0EFC	99 00	39		STA	13568 + 1024,Y
0E73 60 0E74 49 FF	OLIDV	RTS	"055	0EFF				DEY	
0E74 49 FF 0E76 18	SUBY	EOR	#255	0F00	DO FO			BNE	COPLOOP
0E77 69 01		CLC ADC	#1	0F02	AU JE	10	MORE	LDY	#63
0E79 85 02		STA	TEMP	0F04			WUKE	LDA	GARAGE,Y
0E7B AD 1D 13		LDA	SPRY	0/0/	<b>33 00</b>	33		STA	13568 + 1024 + 128 .Y
0E7E 38		SEC	31111	OFOA	RR			DEY	,1
0E7F E5 02		SBC	TEMP	0F0B	10 F7			BPL	MORE
0E81 8D 1D 13		STA	TEMP SPRY SPRY+1 #0 SPRY+1 SPRY+2	OEOD	<b>AN 02</b>			1 DV	#2
0E84 AD 1E 13		LDA	SPRY+1	OFOF	A9 FF		V00P1	LDA	#255
0E87 E9 00		SBC	#0	0F11	99 00	39	V00P1	STA	13568 + 1024,Y
0E89 8D 1E 13		STA	SPRY+1	U/ 14	<b>33 3</b> 0	39		SIM	13568 + 1084,Y
0E8C AD 1F 13		LDA	SPRY+2	0F17	88			DEY	
0E8F E9 00		SBC	110	0F18				BPL	V00P1
0E91 8D 1F 13		STA	SPRY+2	OF1A	AU 36			LDY	#54
0E94 60		RTS		OF1C	A9 80		V00P2	LDA	#128
; joystick routine				OFILE	99 UJ	39	VUUP2	STA	13568 + 1027,Y
, joystick routine				0F21 0F22	00 00			DEY DEY	
0E95	JOYSTICK	==	*	0F23	00 99			DEY	
0E95 AD 01 DC		LDA	\$DC01	0F24	10 FR			BPL	V00P2
0E98 4A		LSR	<b>4</b> 5001	0F24 0F26	A9 0C			LDA	#12
0E99 4A		LSR		0F28	BD 5C	39		STA	13568 + 1024 + 92
0E9A 4A		LSR		OF2B	BD 62	39		STA	13568 + 1024 + 98
0E9B B0 12		BCS	NOTLEFT	OF2E	A2 E4			LDX	#228
0E9D 20 D3 0E		JSR	SCREECH	0F30	BE F9	07		STX	2041
0EA0 EE 20 13		INC	SPRPTR	0F33 (	E8			INX	
0EA3 AE 20 13		LDX	SPRPTR	0F34	BE FA	07		STX	2042
0EA6 E0 08		CPX	#8	0F37 I	E8			INX	
0EA8 D0 05 0EAA A2 00		BNE	NOTLEFT #0 SPRPTR	0F38 (	BE F8	07		STX	2040
0EAC 8E 20 13		LDX STX	#U CDDDTD	OF3B	AU U3	٥٢	7000	LDY	#3
0EAF 4A	NOTLEFT	LSR	ornrin	0F3D (	מכ פם	UP	ZOOP	LDA	SPRCOL,Y
OEBO BO OD	NOTELLI	BCS	NOTRIGHT	0F43 8	99 21 RR	UU		STA Dey	53287,Y
0EB2 20 D3 0E		JSR	NOTRIGHT SCREECH	0F44	10 F7			BPL	ZOOP
0EB5 CE 20 13		DEC	SPRPTR	0F46 /	A9 08			LDA	#8
0EB8 10 05		BPL	NOTRIGHT	0F48 8	BD 1C	D0		STA	53276
0EBA A2 07		LDX	#7	OF4B /	49 00			LDA	#0
0EBC 8E 20 13		STX	NOTRIGHT #7 SPRPTR	0F4D 8	BD 25	D0		STA	53285
OEBF 4A	NOTRIGHT	LSR		0F50 /	49 07			LDA	#7
0EC0 B0 10		BCS	NOTFIRE MOVH #2 NOTFIRE MOVH	0F52 8	3D 26	D0		STA	53286
0EC2 AD 26 13 0EC5 C9 02		LDA CMP	MUVH	0F55 6	50	^^	000001	RTS	
0EC7 F0 09			#Z	0F56 (	J2 UU	02	SPRCOL	.BYT	2,0,2,2
0EC7 F0 05		BEQ DEC	MOVI	0F5A (	טט טע	00	SPRDEF	.BYT	0,0,0,0,0,0,0,0
0EC9 CE 26 13 0ECC AD 26 13		LDA	MOVH	0F6A (	טט טנ	00		.BYT .BYT	0,0,0,016,0,0,096,0 0,040,0,0,169,4,2,13
0ECF 8D 25 13		STA	MOVL	U UA (	JU 20	00		.011	2
0ED2 60	NOTFIRE	RTS		0F72 1	14 8A	00		.BYT	020,138,0,082,168,0
0ED3 48	SCREECH	PHA			•	••		.5	,075,224
0ED4 A9 80		LDA	#128	0F7A (	00 2F	A0		.BYT	0,047,160,0,042,132
0ED6 8D 0B D4		STA	54283						,0,010
0ED9 A9 81		LDA	#129	0F82 1	14 00	02		.BYT	020,0,2,080,0,0,064,
OEDB 8D 0B D4		STA	54283						0
0EDE 68 0EDF 60		PLA		OF8A C				.BYT	0,0,0,0,0,0,0,0
		RTS		0F92 (				.BYT	0,0,0,0,0,0,0,0
; set up sprites				OF9A C				.BYT	0,0,0,1,033,0,1,169
, age uh ahuga				OFAA 2				.BYT	0,1,033,0,0,032,0,0
OEEO	SETSPRITE	_	•	UITAN Z	.0 00	UU		.BYT	032,0,0,032,0,0,032, 0
0EE0 A0 00	32.0.11112	LDY	#0	0FB2 0	00 20	00		.BYT	0,032,0,0,168,0,0,18
0EE2 B9 5A 0F	COPLOOP	LDA	SPRDEF,Y	J. J. U				.511	4
OEE5 99 00 35		STA	13568,Y	OFBA C	00 00	B8		.BYT	0,0,184,0,4,184,064,
0EE8 B9 5A 10		LDA	SPRDEF + 256,Y						5

## Chapter 3

OFC2 A	9 40	05	.BYT	169,064,5,169,064,4	1152 0	00 00	00	.BYT	
				,168,064	115A 0			.BYT	
OFCA O			.BYT	0,0,0,0,0,0,0	1162 0	טט טו	07	.BYT	
0FD2 0			.BYT	0,0,0,0,0,0,0	4464 0	4 00	. 04	DVT	016
OFDA O			.BYT .BYT	0,0,0,0,0,0,0	116A 0	טט ויו	UI	.BYT	001,0,1,048,040,8,1 28.056
OFE2 OFEA OF			.BYT	0,4,0,0,9,0,0,040 0,0,106,0,0,018,128,	1172 0	2 20	CO	.BYT	
UFEA U	0 00	OA	.DII	016	11/2 0	2 00	- 00	.011	,0,152
0FF2 0	n 42	14	.BYT	0,162,020,0,043,133	117A 0	1 00	: AR	.BYT	
0112 0	0 /12	17	.011	,0,011		, ,	, ,,,	.57.7	,128,4
OFFA E	1 00	0A	.BYT	225,0,010,232,0,018	1182 2	2 BO	03	.BYT	
				,168,0					,016,0
1002 1	4 A0	00	.BYT	020,160,0,5,128,0,1,	118A 2	28 CC	40	.BYT	040,192,064,032,1,2
				0					08,192,1
100A 0			.BYT	0,0,0,0,0,0,0,0	1192			.BYT	
1012 0			.BYT	0,0,0,0,0,0,0,0	119A 0			.BYT	
101A 0			.BYT	0,0,0,0,0,0,0	11A2 4	IU 4U	0/	.BYT	
1022 0			.BYT	0,0,0,0,0,0,0	4444 0		- 00	DVT	,0,4
102A 0			.BYT	0,0,0,0,084,0,0,084	11AA (	JU UA	20	.BYT	
1032 4	U UU	10	.BYT	064,0,016,064,010,1	1100 0	200	- 00	.BYT	28,0 002,136,192,066,04
1024 5		AD.	DVT	68,170,171	11B2 (	12 00	CU	.011	2,131,0,168
103A E	0 AA	AD	.BYT	232,170,171,232,06 4,010,168,064	11BA (	ກາວຄ	20	.BYT	
1042 0	n 10	nn	.BYT	0,016,0,0,084,0,0,08	IIDA C	<i>1</i> 0 30	20	.011	,012,016
1072 0	0 10	00	.011	4	11C2 2	08.05	ດດ	.BYT	
104A 0	00 0	00	.BYT	0,0,0,0,0,0,0,0				.511	064
1052 0			BYT	0,0,0,0,0,0,0,0	11CA 3	30 00	00	.BYT	048,0,0,0,016,016,1
105A 0			BYT	0,0,0,0,0,0,0,0					31,0
1062 0			BYT	0,0,0,0,0,0,0,0	11D2 7	74 AC	00	.BYT	
106A 0			.BYT	0,0,0,1,0,0,5,128					16,0
1072 0	0 14	A0	.BYT	0,020,160,0,018,232	11DA (	00 07	40	.BYT	0,7,064,064,1,0,0,0
				,0,011	11E2 (	00 04	30	.BYT	
107A E	8 00	0B	.BYT	232,0,011,161,0,042	11EA (	00 00	02	.BYT	0,0,2,128,0,0,138,12
				,133,0					. 8
1082 A	2 14	12	.BYT	162,020,018,128,01	11F2 (	)O 2A	V OC	.BYT	
		••	D) (T	6,106,0,0	4454 6			OVT	139
108A 2			.BYT	040,0,0,9,0,0,4,0	11FA (	JU U	J 20	.BYT	
1092 0			.BYT	0,0,0,0,0,0,0	1202		00	.BYT	40,3,208
109A 0			.byt .byt	0,0,0,0,0,0,0	1202 /	10 00	02	.011	168,0,2,0,040,048,0 32,2
10A2 0 10AA 0			.BYT	0,0,0,0,0,0,0,0 0,0,4,168,064,5,169,	120A (	חר חר	1 40	.BYT	
IUAA U	00 00	04	.011	0,0,4,100,004,0,103,	IZUA (	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 70	.511	016
10B2 0	15 49	40	.BYT	005,169,064,4,184,0	1212 (	01 03	3 00	.BYT	
1002 0	, no	70		64,0,184	121A (			,BYT	
108A 0	າດ ດດ	RR .	.BYT	0,0,184,0,0,168,0,0	1222 (			.BYT	
10C2 A			.BYT	168,0,0,032,0,0,032,	122A 2			.BYT	
				0					10,3
10CA 0	0 20	00	.BYT	0,032,0,0,032,0,1,03	1232 (	00 00	80	.BYT	0,0,128,0,130,0,2,16
				3					8
10D2 0			.BYT	0,1,169,0,1,033,0,0	123A (	00 20	08	.BYT	
10DA 0			.BYT	0,0,0,0,0,0,0,0				5).47	040
10E2 0			.BYT	0,0,0,0,0,0,0	1242 (	J2 UŁ	3 40	.BYT	002,8,064,2,2,0,032,
10EA 0			.BYT	0,0,0,064,0,2,080,0				D) C	
10F2 0	)A 14	00	.BYT	010,020,0,043,132,0	124A (			.BYT	
4051			01/17	,043,224	1252 (			.BY1 .BY1	
10FA 0	JU 4A	EU	.BYT	0,074,224,0,082,168	125A 4 1262 (			.B11 BY1.	
1100 0		0.4	DVT	,0,020	126A			.BY1	
1102 8	OA UU	04	.BYT	138,0,4,2,132,0,0,16 9	120A	30 2	1 00	.011	040,042,0,0,100,0,0,
110A C	าก กก	28	.BYT	0.0.040.0.0.096.0.0	1272	na ne	20	.BY1	•
1112 1			.BYT	016,0,0,0,0,0,0,0	,			.511	8
111A C			.BYT	0,0,0,0,0,0,0,0	127A	AO 20	00 0	.BY1	T 160,032,0,184,204,0
1122			.BYT	0,0,0,0,0,0,0,0					,0,040
112A C			.BYT	0,0,021,0,0,021,0,0	1282	00 00	0 20	.BY	Г 0,0,032,0,2,0,2,0
1132 (			.BYT	004,0,1,042,160,1,0	128A	00 2	2 00	.BY1	
				43,234	1292			.BY	
113A A	4A 2B	EA	.BYT	170,043,234,170,04	129A	08 30	00 0	.BY1	
				2,160,1,4					0
1142 (			.BYT	0,1,021,0,0,021,0,0	12A2			.BY	
114A (	UU 00	UU	.BYT	0,0,0,0,0,0,0	12AA	uu U	A AU	.BY	T 0,010,160,0,0,128,0,0

12B2 12BA					.BYT .BYT	0,0,2,0,0,8,0,0 010,128,0,011,048,0
12C2 12CA 12D2	00	00	00		.BYT .BYT .BYT	,032,0 0,0,0,0,0,0,0,0 0,0,0,0,0,0,0 0,8,2,1,0,018,0,0
12DA				GARAGE	.BYT	000,000,000,063,25
12E2	FA	5F	FF		.BYT	250,095,255,250,11 1,255,246,111
12EA	FF	F6	77		.BYT	255,246,119,255,23 8,119,255,238
12F2	7B	FF	DE		.BYT	123,255,222,123,24 3,222,124,000
12FA	3E	7B	F3		.BYT	062,123,243,222,12 3,255,222,119
1302	FF	EE	77		.BYT	255,238,119,255,23 8,111,255,246
130A	6F	FF	F6		.BYT	111,255,246,095,25 5,250,095,255
1312	FA	3F	FF		.BYT	250,063,255,252,00 0.000.000,255
131A				SPRX	_	*
131A				SPRY	_	*+3
131A				SPRPTR	_	*+6
131A				JOYL	=	*+7
131A				JOYH	==	*+8
131A				VELX	=	*+9
131A				VELY	===	*+10
131A				MOVL	=	*+11
131A				MOVH	=	*+12
131A				FRICT	=	*+13
131A				NUM	=	*+14
131A				BLOCK	=	*+15
131A				SLOWL	===	*+16



# Appendices



# How to Type In Programs

In order to make it as easy as possible to type in the programs in this book, we've included two program entry aids written in BASIC: "The Automatic Proofreader" and "MLX." To assist you in understanding how to enter these programs, COMPUTE! has established the following listing conventions.

Generally, BASIC program listings like the one for MLX contain words within braces which spell out any special characters: {DOWN} means to press the cursor-down key; {5

SPACES} means to press the space bar five times.

To indicate that a key should be *shifted* (press the key while holding down the SHIFT key), the key is underlined in our listings. For example,  $\underline{S}$  means to type the S key while holding down the SHIFT key. This will appear on your screen as a heart symbol. If you find an underlined key enclosed in braces, for example,  $\{10\ \underline{N}\}$ , you should type the key as many times as indicated. In that case, you would enter ten shifted N's.

If a key is enclosed in special brackets, [<>], you should hold down the *Commodore key* while pressing the key inside the special brackets. (The Commodore key is the key in the lower-left corner of the keyboard.) Again, if the key is preceded by a number, you should press the key as many times as indicated; for example, [<9@>] means to type Commodore-@ nine times.

Refer to the following table when entering cursor and color control keys:

#### Appendix A

## **Keyboard Conventions**

When You			When You		
Read:	Press:	See:	Read:	Press:	See:
{CLR}	SHIFT CLR/HOME	#	[ 1 3]	COMMODORE	1 4 .
{HOME}	CLR/HOME	1	<b>€</b> 2 ⅓	COMMODORE	2
{UP}	SHIFT   † CRSR	#	<b>€</b> 3 <b>3</b>	COMMODORE	3
{DOWN}	↑ CRSR ↓	Q	<b>[ 4 ]</b>	COMMODORE	4
{LEFT}	SHIFT ← CRSR →		<b>€</b> 5 <b>3</b> ]	COMMODORE	5
{RIGHT}	← CRSR →		<b>€</b> 6 <b>3</b>	COMMODORE	6
{RVS}	CTRL 9		<b>€</b> 7 <b>3</b>	COMMODORE	7
{OFF}	CTRL 0		<b>E</b> 8 <b>3</b>	COMMODORE	8
{BLK}	CTRL 1		{ F1 }	f1	
{WHT}	CTRL 2		{ <b>F2</b> }	SHIFT f1	
{RED}	CTRL 3	댿	{ <b>F3</b> }	f3	
{CYN}	CTRL 4		{ <b>F4</b> }	SHIFT f3	
{PUR}	CTRL 5		{ <b>F5</b> }	f5	
{GRN}	CTRL 6		{ <b>F6</b> }	SHIFT f5	
{BLU}	CTRL 7	E	{ F7 }	<b>f</b> 7	
{YEL}	CTRL 8		{ F8 }	SHIFT f7	
			4	•	<b>#</b>
			<u>†</u>	SHIFT	1

# The Automatic Proofreader

Philip I. Nelson

"The Automatic Proofreader" helps you type in program listings for the Commodore 64 and 128, and prevents nearly every kind of typing mistake.

Type in the "Proofreader" exactly as listed. Since the program can't check itself, type carefully to avoid mistakes. Don't omit any lines, even if they contain unfamiliar commands. After finishing, save a copy or two on disk or tape before running it. This is important because the Proofreader erases the BASIC portion of itself when you run it, leaving only the machine language portion in memory.

Next, type **RUN** and press RETURN. After announcing which computer it's running on, the Proofreader displays the message *Proofreader Active*. Now you're ready to type in a BASIC program.

#### Two Letters

Every time you finish typing a line and press RETURN, the Proofreader displays a two-letter checksum in the upper-left corner of the screen. Compare this result with the two-letter checksum printed to the left of the line in the program listing.

The one program in this book that can be used in conjunction with the Proofreader is "MLX: Machine Language Entry Program," which is found in Chapter 2. Make sure you use the Proofreader to type in MLX, since it is vital that you have the latter program entered correctly. If there is an error in MLX, you will not be able to type in any of the seven machine language games in this book.

If the letters match, it's almost certain the line was typed correctly. If the letters don't match, check for your mistake and correct the line.

#### What It Does, What It Doesn't

The Proofreader ignores spaces not enclosed in quotation marks, so you can omit or add spaces between keywords and still see a matching checksum. However, since spaces *inside* quotation marks are almost always significant, the Proofreader pays attention to them. For example, 10 PRINT"THIS IS BASIC" generates a different checksum than does 10 PRINT"THIS ISBA SIC".

A common typing error is transposition—typing two successive characters in the wrong order, like PIRNT instead of PRINT or 64378 instead of 64738. The Proofreader is sensitive to the *position* of each character within the line and thus catches transposition errors.

The Proofreader does *not* accept keyword abbreviations (for example, ? instead of PRINT). If you prefer to use abbreviations, you can still check the line by LISTing it after typing it in, moving the cursor back to the line, and pressing RETURN. LISTing the line substitutes the full keyword for the abbreviation and allows the Proofreader to work properly. The same technique works for rechecking programs you've already typed in.

If you're using the Proofreader on the Commodore 128, do not perform any GRAPHIC commands while the Proofreader is active. When you perform a command like GRAPHIC 1, the computer moves everything at the start of BASIC program space—including the Proofreader—to another memory area, causing the Proofreader to crash. The same thing happens if you run any program with a GRAPHIC command while the Proofreader is in memory.

Though the Proofreader doesn't interfere with other BASIC operations, it's a good idea to disable it before running another program. However, the Proofreader is purposely difficult to dislodge: It's not affected by tape or disk operations, or by pressing RUN/STOP-RESTORE. The simplest way to disable it is to turn the computer off, then on. A gentler method is to SYS to the computer's built-in reset routine (SYS 65341 for the 128; 64738 for the 64). These reset routines erase any program in memory, so be sure to save the program you're typing in *before* entering the SYS command.

If you own a Commodore 64, you may already have wondered whether the Proofreader works with other programming utilities like "MetaBASIC." The answer is, generally, yes, if you're using a 64 and activate the Proofreader after installing the other utility. For example, first load and activate MetaBASIC, then load and run the Proofreader.

When using the Proofreader with another utility, you should disable *both* programs before running a BASIC program. While the Proofreader seems unaffected by most utilities, there's no way to promise that it will work with any and every combination of utilities you might want to use. The more utilities activated, the more fragile the system becomes.

#### The Automatic Proofreader

Read Appendix A before entering this program.

- 10 VEC=PEEK(772)+256\*PEEK(773):LO=43:HI=44
- 2Ø PRINT"{CLR}{WHT}AUTOMATIC PROOFREADER FOR ";:IF
   VEC=42364 THEN PRINT "C-64"
- 30 IF VEC=50556 THEN PRINT "VIC-20{BLU}"
- 40 IF VEC=35158 THEN WAIT CLR:PRINT "PLUS/4 & 16"
- 50 IF VEC=17165 THEN LO=45:HI=46:WAIT CLR:PRINT"12 8{WHT}"
- 60 SA=(PEEK(LO)+256\*PEEK(HI))+6:ADR=SA
- 7Ø FOR J=Ø TO 166:READ BYT:POKE ADR,BYT:ADR=ADR+1: CHK=CHK+BYT:NEXT
- 80 IF CHK<>20570 THEN PRINT "\*ERROR\* CHECK TYPING {SPACE}IN DATA STATEMENTS": END
- 90 FOR J=1 TO 5:READ RF, LF, HF:RS=SA+RF:HB=INT(RS/2 56):LB=RS-(256\*HB)
- 100 CHK=CHK+RF+LF+HF:POKE SA+LF,LB:POKE SA+HF,HB:N EXT
- 110 IF CHK<>22054 THEN PRINT "\*ERROR\* RELOAD PROGR AM AND CHECK FINAL LINE": END
- 120 POKE SA+149, PEEK(772): POKE SA+150, PEEK(773)
- 130 IF VEC=17165 THEN POKE SA+14,22:POKE SA+18,23: POKESA+29,224:POKESA+139,224
- 140 PRINT CHR\$(147); CHR\$(17); "PROOFREADER ACTIVE": SYS SA
- 150 POKE HI, PEEK(HI)+1:POKE (PEEK(LO)+256\*PEEK(HI))-1,0:NEW
- 160 DATA 120,169,73,141,4,3,169,3,141,5,3
- 170 DATA 88,96,165,20,133,167,165,21,133,168,169
- 180 DATA 0,141,0,255,162,31,181,199,157,227,3
- 190 DATA 202,16,248,169,19,32,210,255,169,18,32
- 200 DATA 210,255,160,0,132,180,132,176,136,230,180
- 210 DATA 200,185,0,2,240,46,201,34,208,8,72

#### Appendix B

22Ø DATA 165,176,73,255,133,176,104,72,201,32,208
23Ø DATA 7,165,176,208,3,104,208,226,104,166,18Ø
24Ø DATA 24,165,167,121,0,2,133,167,165,168,105
25Ø DATA 0,133,168,202,208,239,240,202,165,167,69
26Ø DATA 168,72,41,15,168,185,211,3,32,210,255
27Ø DATA 104,74,74,74,74,168,185,211,3,32,210
28Ø DATA 255,162,31,189,227,3,149,199,202,16,248
29Ø DATA 169,146,32,210,255,76,86,137,65,66,67
30Ø DATA 68,69,70,71,72,74,75,77,80,81,82,83,88
31Ø DATA 13,2,7,167,31,32,151,116,117,151,128,129,
167,136,137

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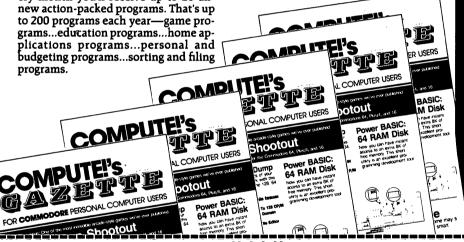
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